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Feed

OUTLOOK & SITUATION

2

Table 1.--Feed grains: Marketing year supply, disappearance, area and prices, 1975-81 $\overline{1/}$ (corn, sorghum, oats, barley)

		0	Arddine			9			2011				Ending Stocks	KS.
Year 2/	Begin- ning stocks	: Produc-	Imports	Total	Food	. Alc.	: Seed	residual	Total	Exports	disap- pearance	Govt.	vately:	Total
	AP 60						Million	metric	tons					
1975/76	15.3	185.0	9.0	200.7	11.9	9.4	1.5	115.5	133.5	50.0	183.5	1	17.2	17.2
1976/77	: 17.2	194.0	0.3	211.5	12.5	4.8	1.6	112.1	131.0	9.05	181.6		29.9	29.9
: 87/7761	: 29.9	205.3	0.3	235.5	13.6	4.8	1.5	117.9	137.8	56.3	194.1	0.7	40.7	41.4
: 67/8/61	41.4	221.5	0.3	263.2	14.4	5.1	1.4	135.9	156.8	60.2	217.0	3.7	42.5	46.2
1979/80	: 46.2	238.2	0.3	284.7	15.7	5.2	1.4	138.7	161.0	71.3	232.3	7.7	44.7	52.4
1980/81 5/	52.4	198.2	0.3	250.9	17.5	5.2	1.4	123.2	147.3	72.9	220.2			30.7
1981/82*	30.7	231.4	0.2	262.3		(± 1)		125.0	151.5	72.9	224.4			37.9
** **				Ar	Area				Yield	1d	Index	ех	: Govt. support	t. support
	Nati	National program	Set-aside and	ide	Pla	Planted	Harv	Harvested	. Per harvested	sted	: Average price : received by	price ed by	Total:	Total payments to
	1 1 1	1 1 1 1	W	lion	hectares	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0	1	Metric tons	tons	1967=100	100	Million	dollars
1975/76	36	36.0	1		47	9.69	4	42.3	4.37	37	220	0	17	115
1976/77	36	36.0	70 m as		2	52.1	4	43.0	4.51	51	182	2	8/3	225
: 87/778	36	36.0			5	52.4	4	43.9	4.68	89	176	9	8/8	570
: 62/8/61	35	39.4	3.4		50	50.3	4	42.7	5.19	19	196	9	9/ 1,023	23
1979/80	777	44.3	1.9		4	48.1	4	41.5	5.74	74	218	00	9/ 247	747
1980/81 5/ :	42	42.7			4	49.3	4	41.1	4.82	82			7/ 443	43
1981/82					47	6.64	4	42.9	5,39	39				

3/Uncommitted inventory. 4/ Includes total government loans (original and reseal). 5/ Estimated. 6/ Excludes support payment. 7/ Disaster payments. 9/ Deficiency, disaster, and diversion payments. *Reflects CRB estimate of 'root mean square error' for production and comparable estimates of variability for other items. Chances are about 2 out of 3 the final outcome would fall within the ranges.

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Summary

Feed Grain Supplies Remain Tight; Larger Crops Likely Next Fall

Although U.S. feed grain supplies remain tight, last winter's sharply lower use and prospects for continued weak demand indicate that 1980/81 ending stocks will be larger than anticipated. But, at an estimated 31 million metric tons, stocks next fall would still be 40 percent below a year earlier. Carryover would be only 14 percent of total use, compared with an average stocks-to-use ratio of 22 percent during 1977-79 and 12 percent during 1974-76, when supplies were particularly tight.

Total feed grain disappearance in 1980/81 is estimated at 220 million tons, down from last season's record 232 million. Reflecting lower livestock-to-grain price ratios, smaller animal numbers, and increased roughage feeding, 1980/81 feed use is estimated at 123 million tons, 11 percent below last season and the smallest since 1977/78. But, expected exports are slightly higher at a record 73 million tons and other domestic uses, at 24 million, are 11 percent above last season.

Because of this season's smaller supply, ending stocks of corn are estimated at 22 million tons (866 million bushels), 46 percent below the October 1980 carryin and the smallest since 1975/76. Based on the April 1 stocks report (which indicated sharply lower feed use during January-March) and prospects for lower beef and pork

production, feed use for 1980/81 is estimated at 104 million tons (4.1 billion bushels), 9 percent below last season. Moreover, the reduction more than offset a 4-percent rise in exports this season. Corn exports are estimated at 65 million tons (2,550 million bushels).

Corn farm prices for 1980/81 will likely average around \$3.20 per bushel, up from \$2.52 in 1979/80. During the first 7 months, prices averaged about \$3.15, with a high of \$3.25 in March. New-crop prospects, grain exports from Argentina, and any change in the profitability of the domestic livestock industry will influence prices for the rest of the year.

Reflecting much lower production, the 1980/81 U.S. supply of grain sorghum, nearly 19 million tons (735 million bushels), dropped a fourth from 1979/80. Total use, estimated at 16 million tons (611 million bushels), is a fourth below last season, because feed use and exports are lower. Ending stocks for 1980/81 are estimated around 3 million tons (124 million bushels), 16 percent below the start of the year and the smallest carryover since 1976/77. Because of the tighter supply, farm prices of grain sorghum will likely average around \$3.05 a bushel, compared with \$2.34 last season.

Early season projections of potential increases in both harvested area and average yields this year point to a U.S. feed grain output for 1981/82 that will be well above 1980's drought-reduced level of 198 million tons. If yields follow the trend, total feed grain production would be around 231 (± 21) million tons for next season. But, with a smaller carryin, expected supplies would be only 11 million higher than 1980/81. Next season's total use of feed grains may increase slightly, mainly reflecting increased domestic use. But, total use may fall short of production, causing a buildup in next season's carryover. However, weather conditions and other events could substantially alter 1981 production and expected use.

With increased supplies and only a modest rise in use, feed grain prices will probably decline slightly in 1981/82. However, even with these lower prices, the per acre farm value of feed grains, particularly corn and sorghum, would exceed the value of 1980's below-trend yields.

Most of the expected increase in 1981 feed grain production will be corn. Planted acreage of corn is likely to be about 85 million, 1 million more than indicated in March. The soybean-to-corn price ratio continues to favor corn, and soil moisture has improved since March. Thus, assuming normal abandonment and a trend yield of 103 bushels an acre, corn production would be around 196 million tons (7.73 billion bushels), 16 percent above 1980. Little change in disappearance is likely because of weak feed demand and potentially higher production of foreign coarse grains. Therefore, next season's ending stocks of corn could be sharply larger—around 28 million tons (1.1 billion bushels). In response, corn prices could fall from the 1980/81 average of \$3.20 a bushel, likely ranging from \$2.75 to \$3.35.

World coarse grain production in 1981/82 will likely range from 752 to 802 million tons, up from 725 million tons in 1980/81. The U.S. and Soviet crops are likely to climb well above this season. Larger crops are also

expected in Canada and Eastern Europe. However, dry conditions have reduced crop prospects in parts of Western Europe, while output in China and India may only be slightly above last season. Total foreign coarse grain production is forecasted to range from 526 to 564 million tons, compared with 527 million for 1980/81.

World consumption in 1981/82 may rise 1 to 3 percent, mainly reflecting the larger world crop that is expected. Most of the increase will likely occur in the Soviet Union, where production is forecast to climb sharply from that of the last 2 years. The larger world crop will likely exceed consumption, causing the first stock buildup since 1978/79. World trade in 1981/82 will probably expand, as the Soviets increase imports to replenish stocks and boost livestock production, and developing nations continue to import more to meet domestic needs. Larger export supplies in foreign exporting countries, particularly Argentina and South Africa, point to U.S. export levels that may be the same as in 1980/81.

Soybean meal prices are well above a year ago and, for the year, are likely to average 20 percent higher. Responding to rising prices for soybean meal, U.S. livestock producers cut soybean meal use. During October-March, domestic disappearance of soybean meal was down 9 percent from a year earlier.

Hay prices have remained strong all season. The mid-April price for all hay was \$73 a ton, compared with \$60 a year earlier. In March, hay producers said they would increase acreage by almost 3 percent in 1981. Although hay acreage is expected to expand, timely rains will be necessary to help buildup stocks. Stock rebuilding is imperative, because the past year's stocks were depleted by last summer's drought.

SITUATION AND OUTLOOK FOR FEED GRAINS

Corn

Corn Stocks Higher Than Expected

Corn stocks on April 1, 1981 totaled 3,995 million bushels, down almost 18 percent from last year, but still higher than earlier rates of disappearance would have indicated. Disappearance during January-March 1981 totaled 1,863 million bushels, down more than 8 percent from the same quarter a year ago. While exports of corn remained strong (633 million bushels versus 582 million in 1980) feed use dropped nearly a fifth from the same quarter last year.

Several factors have contributed to the decline in feed use, including higher corn prices and lower-than-expected returns to livestock and poultry producers. The 14-State March 1 inventory for hogs and pigs was down 9 percent from the same time last year. Hogs kept for breeding were down 11 percent and hog producers indicated they intended to reduce farrowings almost 10 percent during March-May.

The April 1 Cattle on Feed report indicated that the number of cattle on feed in the 23 large feeding States was down 4 percent from the same time last year and 12 percent from January 1, 1981. In addition to the lower number of animals, feed conversion improved during January-March due to the mild winter. All of these factors have combined to reduce the season estimate of corn feed use to 4,100 million bushels, down nearly 10 percent from a year ago.

Use At High Levels, Carryover Stocks to Fall

Corn use during 1980/81 is estimated to be 7,400 million bushels, about 200 million below 1979/80's record. Exports of corn should total 2,550 million bushels, up nearly 5 percent from 1979/80. Through early May, exports were 1,586 million bushels, compared with 1,489 million the same time last year. With the ending of the partial grain embargo to the Soviet Union, the possibility remains of additional sales of corn in the current agreement year ending September 30.

Use of corn for food, seed, and industrial purposes continues to increase. The current estimate for these uses is 750 million bushels. The majority of this corn goes into wet milling operations which this season should use about 490 million bushels. An additional 60 million bushels likely will go into fuel alcohol production. The current estimate of corn use for all these purposes is over a tenth higher than last year and should continue to grow as demand for the many corn-based products continues strong.

Ending stocks are likely to fall to 866 million bushels, the smallest carryover since 1975/76. Reserve stocks will be depleted and CCC inventory will likely total 240 million bushels, leaving 626 million bushels as free stocks.

Outlook for Prices

Corn prices at the farm averaged around \$3.15 over the first 7 months of the crop year. Approximately two-thirds of the crop is marketed during this period. While exports and food, seed, and industrial demand remain strong, weakening feed demand may put some downward pressure on prices. Mid-April farm prices averaged \$3.20 per bushel compared with \$2.36 last April. Chicago cash prices were \$3.46 in mid-May compared with \$2.73 in 1980.

The outlook for corn prices over the rest of the season will depend on new crop prospects, export prospects in light of larger Southern Hemisphere harvests, and profitability in livestock and poultry feeding. Ending stocks of corn, while somewhat higher than expected earlier, are still only 12 percent of use or about 6 weeks' supply. Any additional purchase and delivery contracts of corn by the Soviet Union prior to this year's harvest could also strengthen prices.

On the other hand, several developments could lead to somewhat lower prices. Among these are the Southern Hemisphere feed grain crops now being harvested in Argentina and South Africa. The Argentine crop consists of mostly corn and sorghum and is expected to be nearly twice as large as last year's poor crop. Among Argentina's large customers are the Soviet Union, Japan, and Mexico. Additionally, Argentina recently devalued its currency, making its grain even more competitive in world trade.

Another factor weighing on prices is the decline in domestic feeding. Should animal numbers decline further, the amount of corn fed would also decline leading to somewhat lower prices. The current estimate of the 1980/81 season average price is \$3.20, compared with \$2.52 in 1979/80.

Loan and Target Prices Raised

Loan rates and target prices for the 1981 corn crop were recently raised reflecting higher costs of production. The regular loan rate on corn is \$2.40 per bushel while the target price is also \$2.40 per bushel. Corn entered into the farmer-owned reserve is eligible for a higher loan rate of \$2.55. The provisions of the 1981 crop reserve program have not yet been announced.

Reserve corn remains in call status with loans accruing interest of 15.25 percent after April 15. There is no time limit on the pay back period. As of May 6 there were 439 million bushels of corn in the reserve. The Commodity Credit Corporation owns 240 million bushels. Of this amount, about 150 million bushels were acquired to

offset the impact of the Soviet embargo. The CCC inventory can only be sold at a minimum of \$3.42 per bushel.

Plantings Up Some From Last Year

Corn producers were surveyed on March 1 to determine their 1981 planting intentions. They indicated they would seed 84 million acres, about the same as last year's 84.1 million. Leading the decrease were Kansas, Missouri, and Nebraska. These States were all drought-stricken last year. It is expected that some of this corn acreage will go into double-cropped winter wheat and soybeans.

Producers in several States indicated they were going to increase corn plantings. These included Iowa, Michigan, Minnesota and Ohio. These latter States had good yields last year and are indicating good soil moisture to date.

With the combination of the corn-soybean price ratio favoring corn and soil moisture improving since March, the current planted acreage estimate is 85 million acres, slightly above planting intentions.

Outlook for 1981/82

With the expectation of normal abandonment and a trend yield, corn production in 1981 is projected to be about 7,725 million bushels (± 775), significantly above the 1980 level.

Corn disappearance is projected to be slightly higher than the current crop year. Domestic feed use and exports are expected to remain at about the same level as in 1980/81, while use of corn for sweeteners and in gasahol production will likely increase.

Thus, carryover stocks are projected to increase from the estimated 866 bushels for the current crop year. This would place downward pressure on prices with 1981/82 farm prices projected to range from \$2.75 to \$3.35 per bushel.

Sorghum

Prices at Record Levels; Exports Lag Last Year

Prices of sorghum at the farm averaged \$2.92 per bushel (\$5.21 per cwt.) in mid-April, compared with \$2.22 per bushel last April and a season high of \$3.08 in December. Kansas City cash prices in April were \$3.07 per bushel compared with \$2.29 in 1980. Prices for sorghum remain much higher than last year and are now expected to average around \$3.05 per bushel over the 1980/81 season. Recent price weakness is due to declining livestock feeding and lagging export demand.

Exports of sorghum between October and March totaled 150 million bushels, compared with 183 million last year at the same time. Exports are now expected to total 250 million bushels, compared with 325 million last year, a decline of 23 percent.

April 1 Stocks Larger Than Expected; Feed Use Declines

Use of sorghum for all purposes is expected to total 611 million bushels this season, down a fourth from last year. A major decline is expected in feed use. Sorghum in all storage positions on April 1, 1981 totaled 313 million bushels, 21 percent less than a year earlier. Disappearance during January-March totaled only 154 million bushels, 39 percent less than the same period last year. Feed use dropped to nearly half the level of 1980. Contributing to this drop were lower cattle on feed numbers and better feed conversion rates due to the mild winter. Feed use of sorghum is now projected to total 350 million bushels, down nearly 30 percent from last year's 484 million bushels.

Ending stocks for 1980/81 are estimated at 124 million bushels, the smallest ending carryover since 1976/77. Reserve stocks will be depleted and CCC inventory will likely total 44 million bushels, leaving 80 million bushels as free stocks.

Sorghum Plantings to Decline

In spite of higher prices than a year ago, sorghum producers on March 1 indicated they intend to plant 15.7 million acres, 1 percent below 1980. Acreage declines are expected in Kansas, Oklahoma, and Texas, the biggest producing State. These States were hard hit by last season's drought and shifted acreage into winter wheat. Acreage increases were shown for Missouri and Nebras-

Loan and Target Prices Raised

Loan rates and target prices for 1981-crop sorghum were recently raised reflecting higher costs of production. The regular loan rate is now \$2.28 per bushel while sorghum entered into the reserve will be eligible for a loan rate of \$2.42 per bushel. The 1981 target price of sorghum is \$2.55 per bushel, 5 cents above the 1980 level.

Outlook for 1981/82

With the sorghum yield in 1981 expected to recover from last year's sharply reduced level, production is projected to be about 735 million bushels (\pm 75), significantly above the 1980 level.

Sorghum disappearance is projected at around 700 million bushels, significantly above the 1980/81 level. Feed use is projected to increase because of the likely larger supplies and expected increase in numbers of cattle on feed. Exports may be up slightly from the esimtated 250 million bushels for 1980/81.

Thus, carryover stocks are projected to increase about 35 million bushels from 1980/81. This should place downward pressure on prices, projected to range from \$2.60 to \$3.20 per bushel.

Barley

Acreage may be Much Higher; Prices Remain Strong

On March 1, barley producers indicated they would plant nearly 10 percent more acreage in 1981. Planted acreage is estimated at just over 9 million acres, a sharp increase from the 8.3 million last season. States indicating more acreage include Idaho, Oregon, North Dakota, and Washington.

Part of the increase in prospective plantings can be attributed to higher prices. Prices for No. 3 or better malting barley averaged \$3.84 per bushel in April in the Minneapolis market, compared with \$2.73 per bushel last year at the same time. Feed barley prices averaged \$2.51 per bushel, compared with \$2.12 last year. Prices on the West Coast have been much stronger. Feed barley prices in Portland averaged \$3.48 per bushel, compared with \$2.63 last year.

Barley in the farmer-owned reserve was removed from release status on May 7. Farm prices had fallen below the \$2.44 per bushel release price. As of May 6 there were about 12.2 million bushels in the reserve. Season average prices are expected to average \$2.80 per bushel, a new record.

Barley Exports Continue Strong; Ending Stocks to Decline

Exports of barley continue at a pace sharply above a year ago. Exports through March totaled 69 million bushels, compared with 43 million the same period last year. Among the major importers this year have been Italy, East Germany, Taiwan, and Japan. Exports for the year are expected to total 75 million bushels, the highest since 1973/74.

Offsetting the strong export outlook has been the weakening domestic feed market. Lower animal numbers and better conversion rates have led to a deline in the amount of barley fed. April 1 stocks of barley in all positions were 202 million bushels, 23 percent less than last year's 262 million. Barley feeding is projected at 165 million bushels, down nearly 20 percent from last year. Ending stocks are projected to be 149 million bushels or 36 percent of total utilization. This is 22 percent less than last year. Possibly 15 million bushels will be in reserve and 3 million owned by the CCC, leaving the major portion as free stocks.

Loan and Target Prices Increased

Loan rates for the 1981 barley crop were recently raised to \$1.95 per bushel. Barley entered into the farmer-owned reserve will be eligible for a loan of \$2.07 per bushel. In response to rising costs of production, the target price of barley has been raised to \$2.60 per bushel.

Outlook for 1981/82

With trend yields, barley production in 1981 is projected to be 574 million bushels (\pm 40), slightly above 1980

level

Barley disappearance is projected at 405 million bushels, down slightly from the 1980/81 level. Feed and residual at 170 million bushels and feed, seed, and industry at 175 million bushels are slightly above current levels. Exports are projected to fall off to about 60 million bushels.

Thus, carryover levels are projected at 169 million, 20 million bushels above the current crop year. This should place downward pressure on prices, projected to range from \$2.35 to \$2.85 per bushel.

Oats

Prospective Plantings Up; Prices Still Strong

On March 1, oat producers indicated they intend to plant 13.5 million acres, an increase of just over 1 percent from last year. Higher acreages were indicated in North Dakota, South Dakota, and Texas. Lower acreages were seen in Wisconsin and Iowa.

Prices for oats have remained strong all season. April prices for No. 2 heavy oats in Minneapolis averaged \$2.21 per bushel, compared with \$1.52 last year. Mid-April farm prices were \$2.04 per bushel. Season average farm prices are now expected to average a record \$1.80 per bushel, compared with 1.36 in 1979/80 and the previous record of \$1.56 in 1976/77.

April 1 Stocks Lower; Loan Rate Raised

The April 1 stocks of oats were 256 million bushels, 25 percent less than a year earlier. Disappearance of oats during January-March was 132 million bushels, down about 2 percent from the same quarter last year. Ending stocks for 1980/81 are estimated at 161 million bushels, nearly a third below 1979/80, and all as free stocks. Currently, there are around 700 thousand bushels of oats in the farmer-owned reserve and about 1 million bushels are owned by the CCC.

Regular loans for the 1981 crop are \$1.24 per bushel, while oats entering the reserve are eligible for a rate of \$1.31 per bushel. There is no target price for oats.

Outlook for 1981/82

Oats production in 1981 may be up significatly from the 1980 level with normal abandonment of planted acreage. The drought last summer sharply reduced the area harvested.

Oats disappearance is projected to decline slightly from the 1980/81 level of 525 million bushels. Feed and residual use are projected to decrease 15 million from the current level, while other uses remain unchanged.

Thus, carryover levels are projected at about 155 million bushels, modestly below the current crop year. However, the overall decrease in demand for feed grains results in a lower projected farm price of \$1.50 to \$1.80 per bushel.

Acreage May Be Up; Prices Strong

Hay producers indicated they would increase acreage by almost 3 percent in 1981. This partly reflects the high prices of hay this season. Major acreage increases were shown for Texas, South Dakota, North Dakota, and Montana. Less acreage may be harvested in Iowa, Ohio, and Wisconsin. Hay prices have remained strong all season. The mid-April price of all hay was \$72.70 per ton while alfalfa was \$75.90 per ton. This compares with \$60.10 in April 1980. Prices are highest in the Southwest where Texas alfalfa hay is \$116 per ton and Oklahoma alfalfa \$97.50 per ton. Prices are much lower in the upper Midwest where Wisconsin alfalfa is \$46 per ton and Michigan alfafa \$40 per ton. These States were not hit by drought in 1980.

DOMESTIC FEED SITUATION

Feed Grain Consumption Declines

With more than half of the current feeding year gone, major feed demand indicators point to continued reductions in feed consumption for the remaining months of 1980/81. Feed grain consumption during the October-March period, at 77 million metric tons, was down slightly more than 4 percent from the like period of a year ago. Overall, the decline in feed grain consumption for 1980/81 is expected to be 11 percent below 1979/80 levels.

Major contributors to declining feed demand are the fed cattle and hog sectors which are expected to use 64 million metric tons of feed grains during 1980/81, compared with 76 million last year, a 16 percent difference. Another factor that could have contributed to reduced concentrate feed consumption was the generally mild temperatures and dry weather conditions over most of the country during the first half of the 1980/81 feeding year. Less feed concentrates per unit of production are associated with reduced weather-induced animal stress. Greater reliance on harvested roughage—hay and silage—was encouraged as sufficient nearby supplies offered cattle, dairy, and lamb produers a chance to cut feed costs. This has also contributed to reduced feed concentrate needs since last October.

The 1980/81 ratio of feed grains to a grain-consuming animal unit (GCAU) is indicative of the shift to roughage feeds and better conversions. The estimated 1980/81 rate is 1.52 metric tons per unit compared with 1.69 tons for 1979/80 and 1.75 tons for 1978/79. Ratios of feed grains per GCAU's from cattle on feed for 1980/81 and the 2 previous years are 1.30, 1.53, and 1.72 tons, respectively. Ratios from hogs for the same years averaged 1.80, 1.96, and 1.99 tons per unit. Producers' feeding options for fed cattle are considerably greater than for hog producers which are reflected in the wider ratios per GCAU. With milk cows, the annual ratios move in a fairly narrow range and are more influenced by feed grain byproduct substitutes. For instance, during the past 2 years the ratios of GCAU from milk cows to total concentrate feed consumption have remained practically unchanged while the feed grain ratios have ranged from 1.70 for 1980/81 to last year's 3-year high of 1.87 metric

Number of cattle on feed for slaughter continued to tighten during January-March and on April 1, totaled 9.76 million head is the 23 major feeding States. This was down 4 percent from April 1980 and 12 percent from 1979, and was the lowest April inventory in 6 years. Steers weighing 700 to 1,100 pounds were down 10 percent from January 1, 1980 numbers, but only 1 percent below levels for the same period of a year ago. Total steers on feed, at 6.6 million, compared with 7.5 million in January, were nearly 4 percent below April 1980, while heifer numbers slipped nearly 12 percent from January, but were off only 6 percent from April 1 of a year ago.

Placements reflect the sharp downturn in fed cattle activity with October-December 1980 placements below the same period in 1979 by about 10 percent. The January-March 1981 placements are also under 1980 numbers, but by only 1 percent. With current placements beginning to pick up, total placements for 1980/81 may about match 1979/80 levels.

Hog production will continue to slow for the balance of this year due to continued poor feeding margins. Producers selling market hogs for \$41 per cwt. see little incentive for increasing production without some relief from lower feed costs or higher market prices. With mid-April farm corn prices at \$3.20 per bushel, and soybean meal prices at \$239 per ton, most hog producers need market prices averaging \$34 per hundred to cover feed costs plus \$11 per hundred liveweight to cover other direct costs. These negative margins will not show much improvement until hog marketings are significantly reduced or feed costs are much lower.

Roughage Feed Situation

Increased quantities of roughage have been fed to offset reduced grain feeding. Current estimates indicate roughage-consuming animal units (RCAU's) in 1980/81 at 90.6 million, up 4 percent from 1979/80 with units from other beef cattle accounting for practically all of this increase. After a dry and relatively mild winter, pastures by the end of April were judged generally fair to good except in parts of the Southwest and the Northern Plains where dry conditions persisted.

High-Protein Feeds

With the sharp decline in feed grain use by hogs during 1980/81, a similar, but less sharp decline, can be

anticipated for high-protein feed consumption. The anticipated increase in poultry feed consumption would account for this smaller decline because poultry feeds contain significantly higher protein levels. At the present time, high-protein consuming animal units are expected to be 114.3 million units for 1980/81 compared with 114.6 for 1979/80. Available supplies per unit are expected to average 459 pounds during 1980/81, compared with a record high of 476 pounds for 1979/80.

WORLD GRAIN SITUATION

World Coarse Grain Production Down

World coarse grain production for 1980/81 is now estimated at almost 725 million tons, down 2 percent from last year's 740 million tons. The largest production increase is occurring in Argentina which is now harvesting a crop of over 21 million tons, up sharply from last year's 10.6 million tons. A major increase is also expected in the South African crop which is now projected at 15.1 million tons versus last year's crop of 11.7 million. The Soviet Union's coarse grain crop of 80.7 million tons was about the same as the 1979/80 crop. The Western European crop was a record 94.7 million tons.

World Grain Trade To Increase

World trade in coarse grains in 1980/81 will be higher than in 1979/80. While the United States has a market share of 70 percent of coarse grain exports, other exporters are slowly increasing their share. Argentina will be an active exporter of corn and sorghum. Exports are now projected at 9.1 million tons most of which will be to the Soviet Union. Argentine exports represent nearly 9 percent of the export market. Because of its large export availabilities, Argentina will be able to supply some of it's traditional customers, like Mexico.

South Africa should also become a more active exporter this season. The large crop will allow South Africa to maintain over 3 percent of the world trade in coarse grains. South African exports will be constrained somewhat by the physical limitations of the country's export capacity.

Major Coarse Grain Producers¹

)	ear Beginn	ning October
Country	1979 ²	1980 ³	19814
		Million m	netric tons
J.S.	238.7	198.7	231.9 ± 21.0
USSR	81.1	80.7	97.0 +10.0
			-15.0
Western Europe	90.7	94.7	92.3 ±5.0
China	83.0	82.5	83.0 ± 3.0
Eastern Europe	63.3	61.7	64.2 ±1.5
Canada	18.6	21.6	23.8 ± 2.0
Argentina	10.6	21.3	18.7 ±3.5
South Africa	11.7	15.1	12.2 ± 2.5
Australia	6.3	5.2	6.1 ±1.0
Thailand	3.6	3.5	3.8 ± 0.5
Other	132.3	140.3	143.6 ± 3.0
Total	739.9	725.3	776.6 ± 25.0

¹Coarse grains are corn, oats, sorghum, barley, rye, millet, and mixed grains. ²Preliminary. ³Estimated as of May 13, 1981. ⁴1981/82 is projected based on surveys, trends, and analysts' judgement.

Imports of coarse grains will increase in Mexico, Brazil, and a number of developing countries. Imports by Western Europe and the Soviet Union should decline somewhat from last year. Ending stocks for the world should total 71 million metric tons, down sharply from last year's 89 million tons. The decline is due primarily to the drawdown in U.S. coarse grain stocks.

Outlook for 1981/82

World coarse grain production in 1981/82 is projected to be 777 million metric tons, a increase of 7 percent from the 1980/81 crop. The crop could range from 752 to 802 million tons. The largest increases are expected to occur in the Soviet Union and the United States with smaller increases likely in Canada, Eastern Europe, and Australia. South Africa and Argentina's production may fall from the record levels of this year, while dry conditions have reduced prospects in Western Europe.

World trade is projected to increase about 4 percent. The U.S. market share is projected to decline because of larger exporter's supplies in foreign exporting countries, particularly Argentina and South Africa. Western Europe exports are projected to decrease.

Imports of coarse grains are projected to increase primarily in the Soviet Union and a number of smaller developing countries. Imports by Western and Eastern Europe should decline somewhat from 1980/81.

Major Coarse Grain Exporters and Importers¹

		Year Begin	ning July
Item	1979 ²	1980 ³	19814
		Million me	tric tons
Major Exporters:			
U.S.	71.6	73.0	73.0 ± 6.0
Argentina	6.6	9.2	13.5 ± 2.0
Western Europe	5.6	6.8	5.5 ± 0.5
Canada	4.8	4.3	4.9 ± 0.5
South Africa	2.9	3.7	4.9 ± 0.5
Australia	4.1	2.4	2.6 ± 0.5
Thailand	2.3	2.3	2.4 ± 0.5
Other	2.8	2.5	3.3 ± 0.5
Total	100.7	104.2	110.1 ±6.0
Major Importers:			
Western Europe	24.0	22.8	23.8 ± 1.0
Japan	18.9	19.0	19.2 ± 0.5
Eastern Europe	11.3	10.7	10.0 ±1.0
USSR	18.4	17.0	20.0 ± 4.0
China	2.0	1.0	1.0 ±1.0
Other	26.1	33.7	36.1 ± 2.1
Total	100.7	104.2	110.1 ±6.

¹Coarse grains are corn, oats, sorghum, barley, rye, millet, and mixed grains. ²Preliminary. ³Estimated as of May 13, 1981. ⁴Projected.

FOOD, SEED, AND INDUSTRIAL USES OF FEED GRAINS

Walter Spilka, Jr. Agricultural Economist National Economics Division, ESS Crops Branch

ABSTRACT: A record of the food, seed, and industrial uses of feed grains (corn, sorghum, barley and oats) is provided along with an analysis of the potential for growth in use. Results indicated that strong growth is occurring in corn wet milling and fuel alcohol production. Declines have been seen in certain products, like cornmeal.

KEYWORDS: Corn, sorghum, barley, oats, wet milling, fuel alcohol, malt.

FOOD, SEED, AND INDUSTRIAL USES OF FEED GRAINS

Walter Spilka, Jr.

Food, seed, and industrial uses are the third source of feed grain disappearance after feed and exports. Recent work at ESS has focused on the use of these grains among the grain consuming industries. This research continues work done previously, the results of which were last published in the May 1979 Feed Situation (FdS-273).

The current research effort has focused on determining the use of the basic grains by specific groups of industries. Since the grains are usually used as a raw material to make a product that in turn is used to produce other products, it is necessary to avoid the potential double counting problem. This can occur when grain products are converted back to a raw material basis and then totaled to determine an industry's use of the grain.

The main problem encountered in this research is a lack of consistent data. Three sources were used in this analysis:

(1)4nCensus of Manufacturers data for 1972 and 1977.(2)Annual reports of the Bureau of Alcohol Tobacco and Firearms (BAFT).

(3) Judgment of ESS economists and analysts as well as grain industry analysts.

Since there is a lack of basic data, most of the results are determined by extrapolation based on growth rates between 1972 and 1977 as found in the Census of Manufacturers data. In some instances the BATF data are used to determine grain use. In other cases, the judg-

ment of analyst is used when there was either a lack of data or the data did not appear consistent.

Grain Industries

For this analysis, seven basic industries are defined. The definitions follow The Census of Manufacturers industry definitions in most cases.

(1)4nWet Corn Milling - those establishments primarily engaged in milling corn by the wet process. The primary product is starch for food and industrial uses and for conversion to dextrose, glucose syrups, and high fructose corn syrups (HFCS). Byproducts of the wet mill process include corn oil, gluten feed, and gluten meal.

(2) Flour and Grain Mill Products - those establishments primarily engaged in milling flour and meal from grain. Also includes industries engaged in the manufacture of cereal breakfast foods and related products. Included also is the dog, cat, and pet food industry which produces these foods from cereals, meat, and other ingredients.

(3) Malt - those establishments engaged in manufacturing malt or malt byproducts.

(4) Malt Beverage - those establishments engaged in manufacturing malt beverages such as beer and ale.

(5)Distilled Liquor - those establishments engaged in manufacturing alcoholic liquors, cordials, and cocktails, such as whiskey, rum, gin, and vodka.

(6) Seed - those enterprises that use the grains for seeding purposes.

1-1

(7) Fuel Alcohol - those establishments that produce fuel alcohol by either the wet mill or dry mill process.

Results

The results of the analysis are shown in the following tables. If grain consumed did not total over 1 million bushels, the industry is not listed.

The results showed several trends in feed grain use. The most noticeable is wet milling of corn. An analysis of the industry's product shipments indicates that production of high fructose corn syrups is growing very rapidly. Growth of the other wet mill products such as starch and glucose syrup grew slowly, possibly because they were being replaced by HFCS. Growth in this industry is expected to continue.

Use of corn in the grain and flour mill industries has been fairly stable. Certain products such as corn meal have experienced a long steady decline due to changing consumer tastes. Production of corn grits and hominy has increased. Use of corn in pet foods has also shown a steady increase. It is expected this industry will continue to grow in the future.

Corn use in the malt beverage and distilled liquor

industry was fairly constant and will probably remain that way. Corn finds large use in the production of bourbon whisky, which is declining in use.

Use of corn for fuel alcohol was first done on a large scale in 1979. Growth has been rapid since then. Currently, the future of the fuel alcohol industry is somewhat clouded by stabilizing gasoline prices, rising corn prices, and uncertainty over continued Government subsidization of the industry.

Sorghum food, seed, and industrial uses have been small. Some sorghum was wet milled until 1978 but none has been in recent years. Small amounts of sorghum are now used in fuel alcohol production.

Barley's major use is in the malt industry where it is processed into malt for use in the malt beverage industry. This use has been growing with the increase in beer consumption. This upward trend is expected to continue.

Oats are used primarily for production of breakfast cereals. Use for this purpose has been steady and should remain that way.

Further details of this research will be provided in the ESS Staff Report "Food, Seed, and Industrial Uses of Feed Grains". This report should be available this summer.

Estimated food, seed, and industrial uses of feed grains, 1977-80

Item	: 1977/78		: 1979/80	: : 1980/81
	:		bushels	•
	•	CO	PN	
Wet Corn Milling	398	425	455	487
Flour and Grain Mills	: 121	124	127	131
Malt Beverage	: 30	30	31	31
Distilled Liquor	: 21	21	20	20
Seed	: 20	20	20	21
Fuel Alcohol	: 0	0	22	60
TOTAL	: 590	620	675	750
	•	S	ORGHUM	
Flour and Grain Mills	: 6	6	6	6
Distilled Liquor	: 4	3	5	3
Seed	: 2	2	2	2
TOTAL	: 12	11	13	11
	•	Е	BARLEY	
Flour and Grain Mills	: 6	6	7	7
Malt	: 130	144	148	149
Distilled Liquor	: 3	3	3	3
Seed	: 17	14	14	13
TOTAL	: 156	167	172	172
			OATS	
Flour and Grain Mills	42	41	41	41
Seed	42	36	35	33
TOTAL	: 84	77	76	74

Source: Census of Manufacturers, Bureau of Alcohol Firearms and Tobacco, and ESS estimates.

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BEHAVIOR OF THE CORN BASIS

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ABSTRACT: Corn basis charts are displayed for Omaha, St. Louis, Chicago, and the United States. Behavior of the corn basis is discussed for the period 1978-1981. The outlook for May, June, and July is included.

KEYWORDS: Corn, corn basis charts, regional corn basis charts, corn basis behavior.

A knowledge of local basis is useful for understanding local cash price changes relative to futures prices. Whereas the futures market price quotation accounts for the overall supply-demand balance for a commodity, the local basis reflects local market factors which, at any given time, help determine the local price that farmers receive.

Basis is defined as the number of cents per bushel that the local cash price of a commodity differs from the current price for a particular futures delivery month. The local basis may be divided into two components. The first is the amount by which the local cash price differs from the cash price at the futures delivery point. It usually is lower, but by no more than transportation costs. The second component is the amount by which the cash price at the delivery point differs from the current futures price. It usually is below the futures price and reflects the cost of carrying the commodity to the futures delivery month.

Historically, Chicago developed as the major futures delivery point because of its great accumulation of grains. Chicago, however, is no longer the physical focal point of the agricultural marketing system. For example, more grain is now exported through the Gulf of Mexico than through the Great Lakes. Also, feedlot and slaughter activities are located closer to the points of production. Thus, position of the local market in relation to the areas of strongest demand will affect the local basis. Other factors which affect basis include the supply of and demand for storage, farmers' willingness to sell, and transportation difficulties.

Although basis patterns will vary as adjustments are made to local supply and demand conditions, a somewhat stable and predictable pattern usually develops. For example, for corn, the July basis (difference between current local cash price and current price for July futures) typically reaches its widest point during the peak of harvest season and gradually narrows as July approaches by the reduction in the carrying cost. If prices were higher in the futures market than in the cash market, or vice versa, traders would buy or take delivery in the low-priced market and sell or make delivery in the high-priced market, thereby minimizing any excessive price difference.

The corn basis charts pictured here show basis behavior over the past 3 years for Omaha, St. Louis, and Chicago. For comparison, a monthly U.S. average farm basis chart is also included. As expected, it does not display the variation shown in the weekly regional charts. A description of basis behavior by crop year follows with regional variations noted.

1978-81 Basis Behavior

The 1978 corn crop was large and was harvested relatively fast. The July basis narrowed rapidly following harvest, reflecting large storage capacity and farmers' reluctance to sell. During the winter months the basis held steady due to transportation difficulties resulting from winter storms and frozen rivers. In March, the basis narrowed under pressure of heavy export sales and strong domestic feed demand. In April, however, high water on northern rivers and the closing of two locks on the Mississippi kept the basis from narrowing in the affected areas. Demand continued heavy into the summer months, but full pipelines and lack of adequate transportation facilities weakened some markets. Widespread rainfall over the Corn Belt contributed to a weakening of the basis as prospects for the 1979 crop improved and producer selling picked up. Regionally, the Chicago basis showed a consistent narrowing from March to July. However, both the St. Louis basis and the Omaha basis held steady most of this time as local factors hindered the movement of grain.

In 1979/80 the U.S. average farm basis widened greatly at harvest due to a large crop and carryover, high freight rates, and tight storage. Heavy export movement and farmer holding led to a strengthening of the basis in November (see St. Louis chart). The basis held steady or weakened in December under pressure of heavy selling and congestion at Gulf Ports. In January, the basis weakened further due to low export activity and decreased feed use, then widened extensively at the time of the Russian embargo. By early February the basis had narrowed again to its pre-embargo level. This recovery was due to several factors, which included—expanding sales to China and Mexico, tight holding by farmers, and additional incentives to put grain into the reserve. Also,

soft drink manufacturers announced their intentions to replace a larger quantity of sugar with corn sweeteners in their products. Basis movement was sluggish in late February as export demand and domestic needs declined. In March, the basis declined as the opening of pastures led to limited feed use. Other factors contributing to the weakness included large stocks, tight storage, high carrying cost, and lack of export business. From April through July, the basis generally narrowed because of Government buying and strong export and processor demand. A pickup in river shipments in April strengthened the basis in St. Louis and Omaha. Weather factors played a dominant role in basis behavior during June and July. Favorable weather in late May and June helped hold the basis steady. However, hot, dry weather in July, along with reports of drought damage in Canada and Mexico, led to a strengthening in the basis for that month in most

The 1980/81 crop year exhibited two expansions of the basis early in the season. The first occurred in November following harvest, and the second occurred in early December when futures prices and cash prices fell dramatically. During the intervening period the basis remained weak. A major factor was record high interest rates, along with a strong U.S. dollar and weak gold and silver markets. Also, poor livestock feeding margins slowed domestic demand. In addition, export activity, which moved at record levels in October and November, fell off in early December. By mid-December export activity had picked up again and the basis narrowed considerably as local cash prices increased while July futures held steady. The basis widened again in early January after corn was called from the farmer-owned reserve, but remained weak through February due to slowed river traffic, reduced domestic and export demand, a strong U.S. currency market, and political unrest in Poland. Some strengthening in the basis has occurred since early March due to the resumption of barge traffic and reports of dry subsoil conditions in some parts of the Corn Belt.

Summer Basis Behavior

Theoretically, the July corn basis should narrow from May to July because of reduced storage costs. Over the

past 2 years the pattern in St. Louis and Chicago has been to widen in June and narrow in July. In Omaha and the United States the basis widened during May-July 1979 and narrowed during May-June in 1980. Factors that contributed to these variations from the expected included the amount of corn remaining in storage, export and domestic demand, and the pattern of farmer holding and marketing. Prospects for the crop coming on, mainly weather developments, also influenced the July basis.

A pattern of late marketing may explain why the basis has widened in some areas during June and July. From 1976 through 1979, June stocks as a percent of total supply increased by 10 percent. Since farmers generally do not carry large inventories of corn into harvest, summer marketings also increased. The impact, however, has been reduced by heavy export demand. In 1978 and 1979, more corn was exported in June than in any other month.

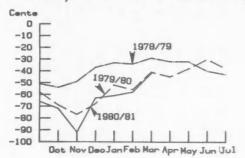
In 1980 the pattern of export movement changed. May, June, and July exports as a percent of total exports for the marketing year were down from previous years. However, the hot, dry weather caused prices to soar and the basis to narrow during the last part of July.

Domestically, less corn is used as feed during the summer than during the fall or winter, contributing to a widening of basis. Higher corn prices during the summer discourage corn feed use. In some areas, wheat feeding may replace corn feeding since wheat supplies are then at their seasonal peak.

1981 Summer Basis Outlook

Behavior of the July basis over these next few months will be influenced by many factors. These include reaction to lifting of the partial sales restrictions to the Soviet Union, size of export and domestic demand, the placement of corn reserve stocks on the market, and weather developments. As of early May, removal of the sales restrictions appeared to have been discounted in the market. Factors contributing to a weakening of the basis include increased competition in the export market from Argentina's record corn crop and a decline in domestic feeding due to smaller numbers of animals on feed. Domestic feeding is not expected to increase over the summer, but an larger export demand could strengthen the basis.

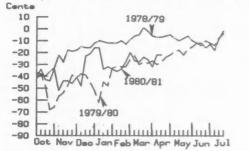
Monthly U.S. Corn Basis 1/



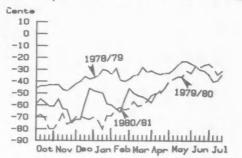
Weekly Chicago Corn Basis



Weekly St. Louis Corn Basis 2



Weekly Omaha Corn Basis 2/



1) Difference between U.S. average Farm Price for all Corn and July futures.

2/Difference between cash price for No. 2 Yellow Corn and July futures (Chicago).

Table 2.--Corn: Marketing year supply, disappearance, area and prices, 1975-81

	**	Supply	1.19	**	-	-	-	Disappearance	ıce			: Ending	stocks	Sept. 30
Year	0	**	**	**		Do	Domestic u	use	**		E		Pri-	
beginning October 1	ning stocks	: Produc- : Licon :	Imports:	Total	Food	Alc. : bever- : ages 1/:	Seed	Feed: and: residual:	Total	Exports	disap- pearance	owned 2/	: vately : owned : 3/	Total
							Million	on bushels						
1975/76	361.4	5,840.8	1.8	6,204.0	431.8	71.1	20.1	3,570.0	4,093.0	1,711.4	5,804.4	-	399.6	399.6
1976/77	399.6	6,289.2	2.5	6,691.3	456.0	73.9	20.1	3,571.3	4,121.3	1,684.1	5,805.4		885.9	885.9
1977/78	885.9	6,505.0	2.6	7,393.5	500.0	70.4	19.5	3,744.4	4,334.3	1,947.8	6,282.1	13.1	1,098.3	1,111.4
1978/79	1,111.4	7,267.9	1.2	8,380.5	531.2	69.3	19.5	4,323.5	4,943.5	2,133.1	7,076.6	7.66	1,204.2	1,303.9
1979/80	1,303.9	7,938.8	1.1	9,243.8	582.8	72.2	20.0	4,518.7	5,193.7	2,432.6	7,626.3	256.3	1,361.2	1,617.5
1980/81 4/	1,617.5	6,647.5	1.0	8,266.0	8.959	73.0	20.2	4,100.0	4,850.0	2,550.0	7,400.0			866.0
1981/82*	866.0	7,725.0 (±775)	1.0	8,592.0		(840.0)		4,100.0	4,940.0	2,550.0	7,490.0			1,102.0
		Area	ea		: 0.2	1 11		Averag	Average prices		. Gc	Government	support	program
		abise-400.		"Harvested		rield R	Received	: Chicago	: Omaha	:Gulf	Ports: Nati	. Landida		Total
	National program	and	Planted	for	** ** **	pa:	by farmers 5/	No. 2 Yellow	No. 2 Yellow	No. 2 w Yellow	2 Low :	average loan rate	Target :	:payments to : partici- : pants
	1	Million	n acres -	1	1	Bushels	1	1 1 1	- Dollars	s per bushel	hel	1 1	1 1	Mil. dol.
1975/76	/9	1	78.7	9.79		86.4	2.54	2,75	2.66		2.91 1.	1.10	1.38	06 /8
1976/77	/9	ma, mai day	84.6	71.5		88.0	2.15	2.30	2.15		2.50 1.	1.50	1.57	8/ 181
1977/78	6.09		84.3	71.6		8.06	2.02	2.26	2.08		2.50 2.	2.00	2.00	8/ 281
1978/79	76.2	6.1	81.7	71.9		101.0	2.25	2.54	2.28		2.81 2.	2.00	2.10	683
1979/80	85.7	2.9	81.4	72.4		109.7	2.52	2.81	2,49		3,02 2.	2.10	2.20	10/ 126
1980/81 4/	84.1	-	84.1	73.1		0.16	3.20	7/ 3.49	7/ 3.24	1/	3.67 2.	2.25	2,35	8/ 300
1981/82			85.0	75.0		103.0 2.	2.75-3.35				2.	2,40	2,40	

1/ Malt beverage and distilled liquor grain products converted to a corn basis. 2/ Uncommitted inventory. 3/ Includes quantity under loan and farmer-owned reserve. 4/ Estimated. 5/ Excludes support payments. 5/ Available for total feed grains only. 6/ October 1980-April 1981 average. 7/ Disaster payments. 8/ Deficiency, disaster, and diversion payments. 9/ Disaster and diversion payments. **Reflects CRB estimate of 'root mean square error' for production and comparable estimates of variability for other items. Chances are about 2 out of 3 the final outcome would fall within the ranges.

Table 3.--Sorghum: Marketing year supply, disappearance, area and prices, 1975-81

	**	Supply	ply					praphearance	ice	The second law or the second l		. ENGINE	Ending stocks Sept	Sept. 30
Year beginning October 1	Begin- ning	: Produc- :	Imports	Total	Food	: Alc.	Domestic : Seed	reed: and	Total	Exports	Total disap-	Govt.	: Pri- : vately	Total
	· ·		**	**		: ages		:residual:		**	in a ratio	;	: 2/	
							Mill	Million bushels	rol					
1975/76	35.0	754.4	1	789.4	0.9	2.8	2.3	8.764	508.9	229.0	737.9	1	51.5	51.5
1976/77	51.5	710.8	1	762.3	0.9	2.9	2.0	414.3	425.2	246.1	671.3	-	91.0	0.16
1977/78	91.0	780.9		871.9	0.9	3.6	2.0	456.3	6.795	213.5	681.4	13.1	177.4	190.5
1978/79	: 190.5	731.3		921.8	0.9	3.2	1.8	2.44.7	555.7	206.6	762.3	43.6	115.9	159.5
1979/80	: 159.5	808.6	9 91 00	968.1	0.9	5.0	2.0	483.7	496.7	324.9	821.6	43.9	102.6	146.5
1980/81 3/	146.5	588.0	-	734.5	0.9	4.0	2.0	348.5	360.5	250.0	610.5			124.0
1981/82*	: 124.0	735.0		859.0		(11.0)	and one and one and one one	425.0	436.0	265.0	701.0			158.0
		Aı	Area					Averag	Average prices			Covernment		support program
	: National : program	National Set-aside program diverted	Planted	Harvested for grain		yield per harvested acre	Received By farmers 4/	Kan N Y	V: Texas No. 2 Yellow	Sulf P		National : average : loan rate ;	rget	: Total : payments to : partici-
		Millic	ion acres -	1 1 1 1 1 1	1	Bushels	1	1 1 1 1 1 1	Dolla	Dollars per cwt.	1 1 1	1	1 1 1	Mil. dol.
1975/76	2/	1	18.1	15,4		0.65	4.23	94.49	4.47	4.	4.94	1.88	2.34	7/ 20
1976/77	15/	-	18.1	14.5		49.1	3,62	3,49	3.64	4.	4.11 2.	2,55	2.66	8/34
1977/78	16.4		16,6	13.8		9.99	3.25	3.54	3,88	4.	4,16 3,	3,39	4.07	8/ 168
1978/79	13.7	1.4	16.2	13.4		54.5	3.59	4.00	4.40	4.	4.65 3,	3,39	4.07	9/ 243
1979/80	15.9	1.2	15.3	12.9		62.7	4.18	4.65	76.97	5	5.54 3.	3.57	4.18	66 /6
1980/81 3/	12.8	On any day	15.9	12.7		46.2	5.45	99.5 /9	6/6.21	6/ 6.52		3.82	94.4	7/ 110
1981/82			15.7	12.9		57.0	4,64-5,71				4.	4.07	4.55	

1) Uncommittee invalues quantity and interest to an and later by the control of t

Table 4.--Barley: Marketing year supply, disappearance, area and prices, 1975-81

		Sul	Supply					Ulsappearance	ce			Ena	Ending stocks	s May 31
Year	. Beoin-	**	**	***			Domestic u	use	**		Total	Goot.	: Pri-	
beginning June 1	ning	: Produc-:	Imports	Total	Food	: Alc. : bever-	Seed	Feed:	Total:	Exports		owned $\frac{1}{1}$: vately : owned : 2/	Total
	** **							Million bushels						
1975/76	: 92.2	379.2	15.7	487.1	5.0	124.8	15.7	189.3	334.8	23.9	358.7	1	128,4	128.4
1976/77	128.4	383.0	10.8	522.2	5.0	131.5	18.2	174.9	329.6	66.2	395.8	1	126.4	126.4
1977/78	126.4	427.8	9.6	563.6	0.9	133.1	16.7	177.5	333.3	57.2	390.5	-	173.1	173.1
1978/79	: 173.1	454.8	10.5	638.4	0.9	147.5	13.6	217.6	384.7	25.7	410.4	2.5	225.5	228.0
1979/80	228.0	382.8	11.8	622.6	7.0	151.0	14.0	203.7	375.7	54.8	430.5	3.2	188.9	192.1
1980/81 3/	: 192.1	358.5	10.0	560.6	7.0	152.0	13.0	164.6	336.6	75.0	411.6			149.0
1981/82*	149.0	415.0	10.0	574.0		(175.0)	(0	170.0	345.0	60.0 (± 15)	405.0			169,0
			Area			73-13		Average	prices		:	Government	nt support	program
ne veet 1	: National : program	National Set-aside program diverted	Planted:	Harvested for grain		per per harvested acre	Received by farmers 4/	. Mo.	: No. 3 : better : maltir	Port No.		National : average !!	Target	: Total :payments to : partici- : pants
	1 1 1	Milli	ion acres -	1	- B	Bushels	1		- Dollars	per bushel	lat	1 1	1	Mil. dol.
1975/76	. 5/	1	4.6	8.6		0.44	2.42	2.38	3.52		2.54 0.	0.90	1.13	2/5
1976/77	15/	ton our up	9.3	4	4	45.4	2.25	2,35	3.13		2.48 1.	1.22	1.28	7/ 10
1977/78	11.7	the same of	10.8	7.6	7	0.44	1.78	1.68	2.27		2.15 1.	1.63	2.15	8/ 121
1978/79	7.5	8.0	10.0	9.2	7	49.2	1.92	1.80	2.38		2.10 1.	1.63	2.25	16 /6
1979/80	7.8	7.0	8.1	7.5	41	6.09	2.29	2.16	2.87		2.69 1.	1.71	2.40	8/ 22
1980/81 3/	8.7		8.3	7.2	7	9.67	2.80	6/ 2.62	6/ 3.62	19	3,33 1.	1.83	2.55	7/ 33
1981/82			9.1	8.3	n t	50.0	2,35-2,85				1.	1.95	2.60	

for total feed grains only. 6/ June 1980-April 1981 average. 7/ Disaster payments. 8/Deficiency and disaster payments. 9/ Deficiency, disaster, and diversion payments. *Reflects CRB estimate of 'root mean square error' for production and comparable estimates of variability for other items. Chances are 2 out of 3 the final outcome would fall within the ranges.

Table 5.--Oats: Marketing year supply, disappearance, area and prices, 1975-81

ni 80 d 1	** **			**			Domestic u	nse			. Total	. Govt .	: Pri-	**
	**													
** ** ** ** **	ning stocks :	Produc- :	Imports	Total	Food	: Alc. : bever-	Seed	: Feed : and : residual:	Total	Exports			: vately : owned : 2/	Total
** ** **								Million bushels						
**	223.0	0.689	7.0	862.7	0.44	1	42.7	557.5	644.2	13.7	657.9		204.8	204.8
1976/77 : 20	204.8	540.4	1.4	746.6	42.4		45.9	4.484.4	572.7	9.6	582,3	-	164.3	164.3
1977/78 : 16	164.3	752.8	2.2	919.3	42.0	-	42.5	509.4	593.9	12.3	606.2		313.1	313.1
1978/79 : 31	313.1	581.7	1.0	895.5	41.0	I	36.1	525.7	602.8	12.7	615.5	5 2.7	277.3	280.0
1979/80 : 28	280.0	526.5	6.0	4.708	40.7	-	34.6	491,6	566.9	4.1	571.0	2.7	233.7	236.4
1980/81 3/ : 23	236.4	457.6	1.0	0.569	41.0	1	33.0	450.0	524.0	10.0	534.0			161.0
1981/82* : 16	161.0	514.0		675.0		(75.0)	(0	435.0	510.0	10.0	520.0			155.0
***		A	Area					Averag	Average prices		E-1	Government	nt support	payment
, Nat	National :Se program :d:	and iverted	Planted	Harvested for grain		Yield per harvested acre	Received by farmers 5/	Minneapolis No. 2 White,	s: Portland No. 2 White		Chicago : No. 2 : White :	National average loan rate	Target	: Total :payments to : partici- : pants
	1 1	Mill	lion acres -	1 1 1	1 1	Bushels	1 1 1	1 1 1 1 1	- Dollars	per	pushel		1 1	Mil. dol.
1975/76	1	Mary may day	16.4	13.0	0	0.65	1.46	1,66	1	1.86	1,54	0.54		1
- : 77/9/61	-	May con year	16.6	11.8		45.7	1.56	1.74	-	1.80	1.71	0.72	1	
1977/78	1		17.7	13.5	10	55.8	1.10	1.27	1	1.44	1.36	1.03	-	-
	1	1	16.4	11.1		52.3	1.20	1.43	1,	1.79	1.37	1.03	1	0.0
- : 08/6/61	1	my my and	14.0	7.6	-	54.4	1.37	1.57	1,	1.87	1.60	1,08	-	-
1980/81 3/ :	-		13.4	8.6		53.0	1.80	6/ 2.02	6/ 2.	2.39 6/	1 2.07	1,16	-	1
1981/82			13.5	(+, +)		53.0	1.50-1.80					1.24	1	

support payments. b/ June 1980-April 1981 average. "Kellects CKb estimate of from mean square citor for variability for other items. Chances are about 2 out of 3 the final outcome would fall within the ranges.

Table 6.---Feed grains: Feed year supply and disappearance, specified periods, 1975-81 $\underline{1}/$ (corn, sorghum, oats, barley)

1/ Data may not add to totals due to independent rounding. 2/ Uncommitted inventory, 3/ Includes quantity under loan and farmer-owned reserve. 4/ Less than 50,000 metric tons. 5/ Estimated.

Table 7. -- Corn: Marketing year supply and disappearance, specified periods, 1975-81 1/

Year and		Sup	Supply			, and a second	Domoot in	Disappearance	nce			124	Ending stocks	S
periods beginning October 1	Begin- ning stocks	Produc- tion	Imports	Total	Food	Alc. bever- ages 2/	3	Feed: and: residual	: Total	Exports	disap- pearance	Govt.	Privately owned	Total
	** **						M1111	Million bushels						
1975/76 OctDec.	361.4	5,84	9.0	6,202.8	108.0	16.3	-	1,151.3	1,275.6	453.7	1,729.3	1	4,473.5	4,473.5
JanMar.	: 4,4/3.5		0.0	4,474.0	73.4	15.7	10.4	1,103.0	1,231.3				2,836.8	2,836.8
June-Sept.	1,868.8		9.0	1,869.4	142.4	24.9	4.0	766.1	937.4	532.4	1,469.8		399.6	399,6
Mkt. year	361.4	5,840.8	1.8	6,204.0	431.8	71.1	20.1	3,570.0	4,093.0	1,711.4	5,804.4	-	399.6	399.6
1976/77	300 6	6 280 2	9	7 689 7	100 /	7 21		9 791 1	7 080 1	0 80%	7 787 1		0 000	0 600 7
JanMar.	: 4,902.0		0.3	4,902.3	104.9	18.2	4.0	1,074.7	1,201.8	399.5	1,601.3		3,301.0	3,301.0
AprMay June-Sept.	: 3,301.0		1.1	3,301.5	82.1	14.8	12.1	540.4	649.4	282.1	931.5	1 1	2,370.0	2,370.0
Mkt. year	399.6	6,289.2	2.5	6,691.3	456.0	73.9	20.1	3,571.3	4,121.3	1,684.1	5,805.4	-	885.9	885.9
1977/78	** **													
JanMar.	: 5.552.3	6,505.0	0.0	7,391.6	120.0	15.7	3.9	1,290.3	1,421.0	418.3	1,839.3	0.5	3,909.2	3,909.4
AprMay	3,909.4		0.3	3,909.7	85.0	13.4	11.7	568.3	678.4	370.2	1,048.6	0.5	2,860.9	2,861.1
June-Sept.	1.100,2 :	W-00-11	0.7	2,861.8	Ten.n	24.3	3.9	4.161	T,005.6	0.44/	1,/50.4	13.1	1,098.3	1,111.4
Mkt. year	885.9	6,505.0	2.6	7,393.5	500.0	70.4	19.5	3,744.4	4,334.3	1,947.8	6,282.1	13.1	1,098.3	1,111.4
1978/79 OctDec. JanMar. AprMay June-Sept.	1,111.4 6,319.1 4,500.4 3,287.2	7,267.9	0.4	8,379.4 6,319.5 4,500.6 3,287.7	132.8 116.9 90.3	17.1 16.9 13.0 22.3	3.9	1,456.4 1,255.1 711.2 900.8	1,606.3 1,392.8 826.2 1,118.2	454.0 426.3 387.2 865.6	2,060.3 1,819.1 1,213.4 1,983.8	77.3 98.8 100.6	6,241.8 4,401.6 3,186.6 1,204.2	6,319.1 4,500.4 3,287.2 1,303.9
Mkt. year	: 1,111.4	7,267.9	1.2	8,380.5	531.2	69.3	19,5	4,323.5	4,943.5	2,133.1	7,076.6	7.66		1,303.9
1979/80 OctDec. JanMar. AprMay June-Sept.	1,303.9 6,886.2 4,857.3	7,938.8	0.3	9,243.0 6,886.5 4,857.4 3,670.8	128.2 116.6 93.2 244.8	16.3 18.4 13.9 23.6	4.0	1,549.4 1,308.2 682.3 978.8	1,693.9 1,447.2 801.4 1,251.2	662.9 582.0 385.6 802.1	2,356.8 2,029.2 1,187.0 2,053.3	99.7 101.2 180.5 256.3	6,786.5 4,756.1 3,489.9 1,361.2	6,886.2 4,857.3 3,670.4 1,617.5
Mkt. year	1,303.9	7,938.8	1.1	9,243.8	582.8	72.2	20.0	4,518.7	5,193.7	2,432.6	7,626.3	256,3	1,361.2	1,617.5
1980/81 5/ OctDec. JanMar. AprMay June-Sept.	1,617.5	6,647.5	0.3	5,857.7	140.0	16.2	4 ,0	1,523.8	1,680.0	727.8	2,407.8	254.3	5,603.1	3,995.0
Mkt, year	** **													

1/ Data may not add to totals due to independent rounding. 2/ Malt beverage and distilled liquor grain products converted to a corn basis. 3/ Uncommitted inventory. 4/ Includes quantity under loan and farmer-owned reserve. 5/ Estimated.

Total Exports Freed Fr	March Domestic use Feed	Alc. DomestLc use I
Domestic use : Feed : F	Domestic use Domestic use Factor Factor Factor	Disappearance Content
100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Total Exports Total Total	Exports Total Govt. Covt. Co
	in Total in disapting disa	Total: Govt. disap- dis

1/ Data may not add to totals due to independent rounding. $\frac{2}{4}$ Uncommitted inventory. $\frac{3}{4}$ Includes quantity under loan and farmer-owned reserve. $\frac{4}{4}$ Less than 50,000 bushels. $\frac{5}{4}$ Estimated.

Table 9.--Barley: Marketing year supply and disappearance, specified periods, 1975-81 $\underline{1}/$

September Product Production Product	Year and		Supply	ply					Disappearance	nce		**	-	Ending stocks	50
92.2 379.2 6.8 478.2 2.0 46.2 11.2 82.4 131.8 4.5 136.3 234.9 134.9 134.9 135.0 4.6 246.5 14.2 285.5 89.4 2.6 81.5 91.6 11.2 82.4 131.8 4.5 116.3 125.0 125.0 11.2 285.5 89.4 8.5 12.9 91.6 11.2 82.5 81.5 12.9 91.6 11.8 4.5 11.2 185.0 11.2 186.5 11.2 186	periods beginning June 1	Begin- ning stocks	0 7	Imports		Food	Alc. bever-	Seed	Feed:	Total	Exports		Govt.	Privately owned 3/	Total
92.2 39.2 6.8 478.2 2.0 46.2 11.2 82.4 131.8 4.5 136.3 — 275.3 341.9 275.3 34.9 36.5 131.8 4.5 131.2 — 275.3 32.2 29.6 61.3 9.7 71.2 — 275.3 20.8 32.1 6.1 58.2 — 275.3 34.9 36.7 — 275.3 135.0 — 128.4 37.0 9.4 3.6 31.0 31.0 9.7 138.4 9.7 31.0		** **						M1111	ion bushels						
128.4 34.6 1.2 2.8.5 2.2 29.6 61.5 9.7 11.2 2.7.3 135.3 1.2 2.9.5 61.5 9.7 11.2 2.9.7 11.2 2.9.5 61.5 3.6 3.1 3.6 3.1 3.6 3.1 3.2 3.6 3.2 3.6 <td>975/76 June-Sept.</td> <td>: 92.2</td> <td>379.2</td> <td>6.8</td> <td>478.2</td> <td>2.0</td> <td>46.2</td> <td>1.2</td> <td>82.4</td> <td>131.8</td> <td>4.5</td> <td>136.3</td> <td>1</td> <td>341.9</td> <td>341.9</td>	975/76 June-Sept.	: 92.2	379.2	6.8	478.2	2.0	46.2	1.2	82.4	131.8	4.5	136.3	1	341.9	341.9
128.4 333.0 5.6 517.0 2.0 68.2 1.5 189.3 334.8 23.9 358.7 128.4 128.4 333.0 5.6 517.0 2.0 68.2 1.5 189.3 334.8 23.9 358.7 128.4 128.4 333.0 5.6 517.0 2.0 68.2 1.5 68.6 6.2 66.2 66.2 66.2 128.4 27.8 2.1 2.1 2.1 2.2 2.2 2.5 2.5 2.5 2.5 2.5 128.4 27.8 2.1 2.1 2.1 2.2 2.2 2.5 2.5 2.5 128.4 233.0 10.8 522.2 5.0 131.5 18.2 174.9 329.6 128.4 427.8 5.1 599.3 2.3 46.7 1.4 64.6 115.0 34.9 10.5 128.4 427.8 5.1 599.3 2.3 46.7 1.4 64.6 115.0 34.9 14.4 129.1 434.8 2.7 630.6 6.0 133.1 16.7 177.5 333.3 57.2 37.5 129.1 434.8 2.7 630.6 6.0 133.1 16.7 177.5 333.3 57.2 37.5 173.1 454.8 2.7 630.6 6.0 147.5 13.6 217.6 384.7 173.2 454.8 10.5 638.4 6.0 147.5 13.6 217.6 384.7 183.8 183.8 183.7 18.8 188.5 18.8 188.5 183.8 183.8 183.8 183.7 18.8 188.5 183.8 183.8 183.8 183.7 14.4 2.5 183.8 183.8 183.8 183.8 183.8 183.8 183.8 183.8 183.8 183.8 183.8 183.8 183.8 183.8 183.8 183.8 183.8 183.8 183.8 183.8 183.8 183.8 183.8 183.8 183.8 183.8 183.8 183.8 183.8 183.8 183.8 183.8 183.8 183.8 183.8 183.8 183.8 183.8 183.8 183.8 183.8 183.8 183.8 183.8 183.8 183.8 183.8 183.8 183.8 183.8 183.8 183.8 183.8	OctDec.	341.9	-	4.6	346.5	1.2	28.5	2.2	29.6	61.5	7.6	71.2		275.3	275.3
92.2 379.2 15.7 487.1 5.0 124.8 15.7 180.3 334.8 23.9 336.7 128.4 128.4 381.0 5.6 517.7 1.2 26.2 2.5 31.9 63.8 27.8 91.6 189.5 285.7 1.0 386.7 1.2 28.2 2.5 31.9 63.8 27.8 91.6 181.2 188.2 1.2 31.9 63.8 27.8 91.6 181.2 188.2 18.9 91.6 28.9 181.2 18.9 18.9 91.6 28.9 18.9 91.6 28.9 18.9 <t< td=""><td>AprMay</td><td>185.0</td><td></td><td>1.6</td><td>186.6</td><td>0.6</td><td>22.2</td><td>8,0</td><td>20.8</td><td>52.1</td><td>5.0</td><td>58.2</td><td> </td><td>128.4</td><td>128.4</td></t<>	AprMay	185.0		1.6	186.6	0.6	22.2	8,0	20.8	52.1	5.0	58.2		128.4	128.4
128.4 383.0 5.6 517.0 2.0 48.2 1.5 84.6 136.3 15.0 151.3 255.7	Mkt. year	: 92.2	379.2	15.7	487.1	5.0	124.8	15.7	189.3	334.8	23.9	358.7	-	128.4	128.4
126.4 427.8 5.7 6.6 7.5 97.8 91.6 275.1 189.5 1.6 246.7 1.2 24.6 24.6 391.9 55.2 10.8 91.6 126.4 277.7 1.2 24.6 24.6 99.8 19.3 54.2 10.9 96.2 99.8 19.3 54.2 10.9 96.2 10.9 10	376/77 Tune-Sent	128.4	383.0	L.	517.0	0.0	6 84	1 5	9.78	136 3	15.0	151 3	1	365.7	365.7
126.4 427.8 30.6 4.4 39.1 75.3 12.9 88.2 ————————————————————————————————————	OctDec.	: 365.7		1.0	366.7	1.2	28.2	2.5	31.9	63.8	27.8	91.6	-	275.1	275.1
126.4 483.0 10.8 522.2 5.0 131.5 18.2 174.9 329.6 66.2 395.8 126.4 409.4 427.8 5.1 457.2 1.4 66.7 115.0 34.9 149.9 126.4 409.4 409.4 1.4 22.8 2.3 22.7 64.6 14.4 79.0 332.2 239.1 1.8 334.0 1.4 22.8 4.0 54.4 92.6 2.3 94.9 139.1 173.1 454.8 9.4 56.6 1.3 1.6 1.7 177.5 33.3 37.2 37.5 173.1 173.1 454.8 2.7 64.0 25.4 92.6 66.7 173.1 173.1 454.8 9.4 56.6 1.1 1.7 177.5 33.3 37.2 37.5 173.1 266.4 427.8 46.7 1.4 3.2 1.8 114.7	JanMar. AprMay	: 275.1		2.6	277.7	1.2	30.6	4.4	39.1	75.3	12.9	88.2		189.5	189.5
126.4 427.8 5.1 559.3 2.3 46.7 1.4 64.6 115.0 34.9 149.9 409.4 409.4 1.8 411.2 1.4 28.2 2.3 32.7 64.6 14.4 79.0 232.2 332.2 1.8 411.2 1.4 32.8 4.0 54.4 92.6 2.3 94.9 239.1 126.4 427.8 9.4 56.5 6.0 133.1 16.7 177.5 333.3 57.2 3.7.5 299.1 173.1 454.8 2.7 630.6 6.0 133.1 16.7 177.5 333.3 57.2 3.7.5 3.7.5 3.3.7 18.8 158.7 173.1 173.1 454.8 10.5 638.4 6.0 147.5 13.6 27.6 69.0 1.4 28.5 1.3 1.4 35.5 1.3 36.8 1.3 1.4 35.6 1.3	Mkt. year	: 128.4	383.0	10.8	522.2	5.0	131,5	18.2	174.9	329.6	66.2	395.8	1	126.4	126.4
409.4 1.8 417.2 1.4 28.2 2.3 32.7 64.6 14.4 79.0 322.2 2.3 32.7 64.6 14.4 79.0 239.1 126.4 427.8 9.4 563.6 6.0 133.1 16.7 177.5 333.3 57.2 3.7.5 173.1 126.4 427.8 9.4 563.6 6.0 133.1 16.7 177.5 333.3 57.2 3.7.5 173.1 126.4 427.8 2.7 630.6 2.3 52.5 1.1 83.8 139.7 18.8 188.5 9.9 9.7 173.1 173.1 173.1 454.8 10.5 538.4 6.0 147.5 13.3 14.7 10.6 2.5 29.1 177.5 333.3 57.2 3.7.5 14.1 332.2 173.1 454.8 10.5 538.4 6.0 147.5 13.3 142.8 9.9	77/78 Time-Sent	1 1 2 6 4	8 707		5 033	c	7.57	1 %	9	0 311	0 78	17.0 0	1	7 607	7 607
1332.2 1.8 334.0 1.4 22.8 4.0 54.4 92.6 2.3 94.9 239.1 126.4 427.8 9.4 563.6 6.0 133.1 16.7 177.5 333.3 57.2 3 7.5 173.1 126.4 427.8 9.4 563.6 6.0 133.1 16.7 177.5 33.3 57.2 3 7.5 173.1 173.1 456.8 2.7 630.6 2.3 52.5 1.1 83.8 139.7 18.8 18.8 70.9 173.1 173.1 456.8 1.0 2.5 7.3 42.7 79.0 4.7 83.7 114.3 389.8 173.1 456.8 10.5 538.4 6.0 147.5 13.6 217.6 384.7 25.7 410.4 2.5 225.5 173.1 456.8 10.5 538.4 6.0 147.5 13.6 217.6 384.7 <t< td=""><td>OctDec.</td><td>4.604 :</td><td>2:17</td><td>1.8</td><td>411.2</td><td>1.4</td><td>28.2</td><td>2.3</td><td>32.7</td><td>9.79</td><td>14.4</td><td>79.0</td><td>-</td><td>332.2</td><td>332.2</td></t<>	OctDec.	4.604 :	2:17	1.8	411.2	1.4	28.2	2.3	32.7	9.79	14.4	79.0	-	332.2	332.2
126.4 427.8 9.4 563.6 6.0 133.1 16.7 177.5 333.3 57.2 3.7.5 173.1 173.1 454.8 2.7 630.6 2.3 52.5 1.1 83.8 139.7 18.8 158.5 0.8 471.3 472.1 2.8 474.9 1.4 35.5 3.3 56.8 97.0 4.7 83.7 1.4 389.8 296.4 2.0 298.4 0.9 26.5 7.3 34.3 97.0 0.8 471.3 294.1 296.4 10.5 638.4 6.0 147.5 13.6 217.6 384.7 25.7 410.4 2.5 225.5 173.1 454.8 1.7 33.9 2.0 39.0 76.6 22.4 99.0 3.1 255.5 228.0 382.8 1.7 37.3 3.4 60.9 11.4 72.3 40.4 25.5 25.5 262.3	JanMar. AprMay	: 239.1		1.8	334.0	1.4	32.8	9.0	54.4	92.6	5.6	94.9	-	239.1	239.1
173.1 454.8 2.7 630.6 2.3 52.5 1.1 83.8 139.7 18.8 158.5 0.8 471.3 472.1 3.8 474.9 1.4 35.5 1.9 4.7 83.7 1.4 38.8 18.8 158.5 0.8 471.3 38.9 83.7 1.4 38.9 83.7 1.4 38.9 83.7 1.4 38.9 83.7 1.4 38.9 83.7 1.4 38.9 83.7 1.4 38.9 83.7 1.4 70.4 2.5 225.5	Mkt. year	126.4	427.8	4.6	563.6	0.9	133,1	16.7	177.5	333.3	57.2	3 7.5	100	173.1	173.1
472.1 2.8 474.9 1.4 33.0 1.9 42.7 79.0 4.7 83.7 1.4 389.8 391.2 3.0 394.2 1.4 35.5 3.3 56.8 97.0 0.8 97.8 2.3 294.1 296.4 2.0 298.4 0.9 26.5 7.3 34.3 69.0 1.4 70.4 2.5 225.5 173.1 454.8 10.5 638.4 6.0 147.5 13.6 217.6 384.7 25.7 410.4 2.5 225.5 228.0 382.8 3.7 614.5 2.5 51.9 1.1 87.3 142.8 9.9 152.7 2.5 225.5 262.3 3.7 614.5 2.5 51.9 1.1 87.3 142.8 9.9 152.7 2.5 225.5 262.3 3.2 3.5 3.5 3.4 53.0 76.6 224 99.0 3.1 362.5 262.3 3.2 3.2 2.4 50.9 11.4 72.3	78/79 June-Sept.	173.1	454.8	2.7	630.6	2	52.5	1.1	00	139.7	90.80	158.5	0.8	471.3	472.1
1391.2 —— 3.0 394.2 1.4 35.5 3.3 56.8 97.0 0.8 97.8 2.3 294.1 296.4 —— 2.0 298.4 0.9 26.5 7.3 34.3 69.0 1.4 70.4 2.5 225.5 133.1 454.8 10.5 638.4 6.0 147.5 13.6 217.6 384.7 25.7 410.4 2.5 225.5 228.0 382.8 3.7 614.5 2.5 51.9 1.1 87.3 142.8 9.9 152.7 2.9 458.9 461.8 —— 3.2 464.6 1.7 37.3 3.4 50.6 22.4 99.0 3.1 362.5 262.3 —— 3.2 3.6 1.7 37.3 3.4 60.9 11.1 72.3 3.2 188.9 262.3 —— 2.1 264.4 1.1 27.9 7.5 24.4 60.9 11.4 72.3 3.2 188.9 228.0 382.8 11.8 622.6 7.0 151.0	OctDec.	: 472.1		2.8	474.9	1.4	33.0	1.9	42.7	79.0	4.7	83.7	1.4	389.8	391.2
173.1 454.8 10.5 638.4 6.0 147.5 13.6 217.6 384.7 25.7 410.4 2.5 225.5 228.0 382.8 3.7 614.5 2.5 51.9 1.1 87.3 142.8 9.9 152.7 2.9 458.9 461.8 2.8 464.6 1.7 33.9 2.0 39.0 76.6 22.4 99.0 3.1 332.5 365.6 2.1 264.4 1.1 27.9 7.5 24.4 60.9 11.4 72.3 35.0 262.3 382.8 11.8 622.6 7.0 151.0 14.0 203.7 375.7 54.8 430.5 3.2 188.9 192.1 356.4 1.7 36.6 1.2 78.1 138.4 79.8 24.9 163.3 3.5 387.3 390.8 2.7 304.6 1.7 36.0 37.7 79.8 24.9 163.3 3.5 </td <td>JanMar. AprMay</td> <td>296,4</td> <td>11</td> <td>2.0</td> <td>394.2</td> <td>1.4</td> <td>26.5</td> <td>7.3</td> <td>34.3</td> <td>0.69</td> <td>1.4</td> <td>70.4</td> <td>2.3</td> <td>225.5</td> <td>228.0</td>	JanMar. AprMay	296,4	11	2.0	394.2	1.4	26.5	7.3	34.3	0.69	1.4	70.4	2.3	225.5	228.0
228.0 382.8 3.7 614.5 2.5 51.9 1.1 87.3 142.8 9.9 152.7 2.9 458.9 461.8 —— 2.8 346.4 1.7 33.9 2.0 39.0 76.6 22.4 99.0 3.1 362.5 365.6 —— 2.1 264.4 1.7 37.3 3.4 53.0 95.4 11.1 106.5 3.3 259.0 262.3 —— 2.1 264.4 1.1 27.9 7.5 24.4 60.9 11.4 72.3 3.2 188.9 228.0 382.8 11.8 622.6 7.0 151.0 14.0 203.7 375.7 54.8 430.5 3.2 188.9 192.1 35.5 554.1 2.5 56.6 1.2 78.1 138.4 24.9 163.3 3.5 387.3 390.8 —— 2.3 393.1 1.7 36.0 3.7 79.8 22.7 102.5 3.4 198.7 301.9 —— 2.7 304.6 1.7 36.0 3.7 79.8 22.7 102.5 3.4 198.7	Mkt. year	: 173.1	454.8	10.5	638.4	0.9	147.5	13.6	217.6	384.7	25.7	410.4	2.5	225.5	228.0
461.8 2.8 464.6 1.7 33.9 2.0 39.0 76.6 22.4 99.0 3.1 362.5 365.6 3.2 368.8 1.7 37.3 3.4 53.0 95.4 11.1 106.5 3.3 250.0 262.3 2.1 264.4 1.1 27.9 7.5 24.4 60.9 11.4 72.3 3.2 188.9 228.0 382.8 11.8 622.6 7.0 151.0 14.0 203.7 375.7 54.8 430.5 3.2 188.9 192.1 358.5 3.5 554.1 2.5 56.6 1.2 78.1 138.4 24.9 163.3 3.5 387.3 390.8 2.7 304.6 1.7 36.0 3.7 38.4 79.8 22.7 102.5 3.4 198.7	79/80 Time-Sent	228 0	382 8	3 7	5 717	2 6	0	1	27 0	8 671	0	152.7	2.9	458.9	461.8
365.6 3.2 368.8 1.7 37.3 3.4 53.0 95.4 11.1 106.5 3.3 259.0 262.3 2.1 264.4 1.1 27.9 7.5 24.4 60.9 11.4 72.3 3.2 188.9 228.0 382.8 11.8 622.6 7.0 151.0 14.0 203.7 375.7 54.8 430.5 3.2 188.9 192.1 358.5 3.5 554.1 2.5 56.6 1.2 78.1 138.4 24.9 163.3 3.5 387.3 390.8 2.7 304.6 1.7 36.0 3.7 38.4 79.8 22.7 102.5 3.4 198.7	OctDec.	: 461.8		2.8	9.494	1.7	33.9	2.0	39.0	76.6	22.4	0.66	3,1	362.5	365.6
228.0 382.8 11.8 622.6 7.0 151.0 14.0 203.7 375.7 54.8 430.5 3.2 188.9 192.1 358.5 3.5 554.1 2.5 56.6 1.2 78.1 138.4 24.9 163.3 3.5 298.4 390.8 2.3 393.1 1.7 33.2 2.2 32.7 69.8 22.7 102.5 3.4 198.7 301.9 2.7 304.6 1.7 36.0 3.7 38.4 79.8 22.7 102.5 3.4 198.7	JanMar.	365.6		3.2	368.8	1.7	37.3	7.5	53.0	95.4	11.1	106.5	3.3	259.0	262.3
192.1 358.5 3.5 554.1 2.5 56.6 1.2 78.1 138.4 24.9 163.3 3.5 387.3 390.8 2.3 393.1 1.7 33.2 2.2 32.7 69.8 21.4 91.2 3.5 298.4 301.9 2.7 304.6 1.7 36.0 3.7 38.4 79.8 22.7 102.5 3.4 198.7	Mkt. year	: 228.0	382.8	11.8	622.6	7.0	151.0	14.0	203.7	375.7	8.45	430.5	3.2	188.9	192,1
: 390.8 2.3 393.1 1.7 33.2 2.2 32.7 69.8 21.4 91.2 3.5 298.4 301.9 2.7 304.6 1.7 36.0 3.7 38.4 79.8 22.7 102.5 3.4 198.7	80/81 4/ June-Sept.	192.1	358.5	3.5	554.1	2 6	35	1.3	78.1	138.4	24.9	163.3	3,5	387.3	390.8
: 301.9 2.7 304.6 1.7 36.0 3.7 38.4 79.8 22.7 102.5 3.4 198.7	OctDec.	390.8	-	2.3	393.1	1.7	33.2	2.2	32.7	69.8	21.4	91.2	3.5	298.4	301.9
Mkt. year :	JanMar. AprMay	301.9	-	2.7	304.6	1.7	36.0	3.7	38.4	79.8	22.7	102.5	3.4	198.7	202.1
	Mkt. year	** **													

1/ Data may not add to totals due to independent rounding. 2/ Uncommitted inventory. 3/ Includes quantity under loan and farmer-owned reserve.

Table 10.--Oats: Marketing year supply and disappearance, specified periods, 1975-81 $\underline{1}/$

Year and			Supply				13	Disappearance	ce				Ending stocks	00
periods beginning June 1	Begin- ning stocks	: Produc-	Imports	Total	Food	: Alc. : bever-	: Seed	: Feed : and : residual :	Total	Exports	Total disap- pearance	Govt.	Privately owned $\frac{3}{}$	Total
							Milli	Million bushels						
1975/76 June-Sept.	223.0	639.0	0.3	862.3	15.0	1	2.1	226.0	243.1	2.6	245.7	2.6	614.0	616.6
JanMar.	: 492.8	-	0.7	493.0	11.0		8.6	155.4	175.0	0.7	175.7		317.3	317.3
AprMay	: 317.3	-	0.1	317.4	7.0	-	29.9	73.4	110.3	2.3	112.6		204.8	204.8
Mct. year	: 223.0	639.0	1.0	862.7	0.44	-	42.7	557.5	644.2	13.7	627.9	1	204.8	204.8
1976/77 June-Sept. OctDec.	204.8	540.4	0.1	745.3	14.4	1 1	2.3	193.9	210.6	3.7	215.5	8 8 8 8	529.8	529.8
JanMar. AprMay	: 410.6		9.0	411.2	10.6	-	32.1	132.8	93.9	0.5	94.4		258.1	258.1
Mkt. year	204.8	540.4	1.4	746.6	42.4		45.9	484.4	572.7	9.6	582.3		164.3	164.3
1977/78 June-Sept. OctDec. JanMar. AprMay	164.3 679.5 568.0 421.8	752.8	1.1 0.5 0.4 0.2	918.2 680.0 568.4 422.0	14.4 10.7 10.1 6.8		2.1 8.5 29.8	219.5 92.4 126.5 71.0	236.0 105.2 145.1 107.6	2.7 6.8 1.5 1.3	238.7 112.0 146.6 108.9	1111	679.5 568.0 421.8 313.1	679.5 568.0 421.8 313.1
Mkt. year	: 164.3	752.8	2.2	919.3	42.0	age and age	42.5	509.4	593.9	12.3	606.2	1	313.1	313.1
1978/79 June-Sept. OctDec. JanMar. AprMay	313.1 645.9 546.3 381.6	581.7	0.3 0.1 0.2	895.1 646.0 546.5 381.7	14.7 10.3 10.7 5.3		1.8 1.8 7.2 25.3	224.8 84.2 146.3 70.4	241.3 96.3 164.2 101.0	3.4 0.7 0.7	249.2 99.7 164.9 101.7	1.5 2.7 2.7	644.4 543.8 378.9 277.3	645.9 546.3 381.6 280.0
Mkt. year	313,1	581.7	7.0	895.5	41.0		36.1	525.7	602.8	12.7	615.5	2.7	277.3	280.0
J979/80 June-Sept. OctDec. JanMar. AprMay	280.0 568.1 476.8	526.5	0.3	806.8 568.3 477.0 339.8	14.6 10.4 10.3 5.4		1.7 1.7 6.9 24.3	221.5 77.5 119.7 72.9	237.8 89.6 136.9 102.6	0.9	238.7 91.5 137.4 103.4	2.6	565.5 474.2 336.9 233.7	568.1 476.8 339.6 236.4
Mkt. year	: 280.0	526.5	6.0	807.4	40.7		34.6	491.6	566.9	4.1	571.0	2.7	233.7	236.4
1980/81 4/ June-Sept. OctDec. JanMar. AprMay	236.4 : 484.1 : 390.5	457.6	0.2	694.6 484.3 390.7	15.0	111	1.8	189.9 79.2 115.3	206.7 91.0 132.3	2 2 3	210.5 93.8 134.9	2.7	481.4 387.8 253.3	484.1 390.5 255.8
Mkt. year														

1/ Data may not add to totals due to independent rounding. 2/ Uncommitted inventory. 3/ Includes quantity under loan and farmer-owned reserve. 4/ Estimated.

Table 11.--Corn and sorghum: Farm prices, acreage, production, and yield, 1950 to 1980 $\underline{1}/$

Percent Perc		**		-	Corn			**	The second second second	The second secon	201	Sorghum	
1,000 1,00	ear		a)	Plante				** ** **	Farm	Planted			ield per arvested acre
1.052 82257 71195 22081073 41.0 6 202 1120 6 2225 1120		Dol.	per	1,000	1,000	1,000	Rushala	::	Dol. per	1,000	1,000	1,000	Ruchole
1. 52 5237 7738 274071 35.2 7.5 5.5 10340 1025 7354 10 10 10 10 10 10 10 10 10 10 10 10 10		1		3	2	DOUSDETS	200000000000000000000000000000000000000	** *	COOR	acres	SCIES	PUSICIO	Daniero
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	00	-	52	285	239	70007	(C)		00	0.5	2	23353	22.6
1,522 9,234 7,735 2,661601 3,04 11,05 1,220 6,230 1,271 1,	110	-	99	327	6	62893	9	**	Bal	20	32	16284	
1,40 84174 70738 2707943 30.4 1.7 2.35 2014A 1.7	2		52	223	30	98079	-	**	E.	20	100	9074	17.0
1.25	19	-	877	151	33	2881801	0	**	90'	29	50	11471	OK.
10.25	4	95	6.3	218	866	2707913	0	**	Ni.	014	179	23557	-
10.29 737828 644877 3345235 4474 2 20534 19608 19608 2 20534 1 229 73528 644877 2354535 2 247	10	-	50	093	846	2872959	o Cu	**	-	392	289	4263	ec.
1011 73380 635055 3045355 520	0	1	50	782	487	3075336	-	**	0	138	920	90	Chi
1.12 0.5344 0.5344 0.5344 0.52	1	ent	1.5	318	S	3045355		**	-	688	89	6750	-
1.00 62042 71422 3905049 54.9 1.00 14299 1500 1500 55044 442 41422 3505544 550531 64.9 1.00 14259 1500 1500 1500 1500 1500 1500 1500 15	10	-	2	335		35620	0	**	-	190	25	8101	SEP.
10.00 81428 35905449 54.07 11.00 14294 15001 65010 650	0	-	0.50	274		85459	10	**	Mr.	950	0 7	55.58	-0
10.10 65019 5726 5506511 6467 11.00 11.20 10005 65020 11.01 65019 5772 5506511 6467 11.00	0	get	00	142		90694	17	**	-3	59	69	61998	39.7
10.12 0.5517 55720 3500-311 0.40 1.971 1.972 15000 1.971 51000 1.971 51000 1.971 51000 1.971 51000 1.971 51000 1.972 51000 1.972 51000 1.972 51000 1.972 51000 1.972 1	-	ged.	10	265		59780	O.	**	OC:	59	98	48020	43.7
\$ 10.11 66371 \$5227 4019233 67.9 11.01 1770 11722 420706 42.0 11.02 11.0	~	-	12	501		60631	7	**	Œ	90	12	51028	6.44
1.17 65823 5569 3484253 62.0 1.742 10070 11742 100844 466757 74.0 1.76 10070 11742 100844 4667570 4667572 4667572 100844 4667572 4667572 100844 4667572 4667572 100844 4667572 4667572 100844 4667572 4667572 100844 4667572 4667572 100844 4667572 4667572 4667572 100844 4667572 4	~	-	1.2	00		01923	4	**	-	100	33	56539	80
10.16 65171 55502 4102867 74,1 1.76 17079 15029 174090 551 10.24 665147 55702 4167606 73,1 1.67 16047 15029 7514092 551 10.3 7156 66634 75524 770,2 1.67 16047 15048 755344 552 10.16 64524 55702 4467637 65,9 1.01 17241 15437 755344 552 10.17 64663 55753 65467637 770,4 1.01 17241 15437 755344 552 10.18 64569 55753 5570452 97,0 1.01 17561 15403 75700 603 10.18 7703 65104 7570 603 10.18 7703 7570 603 10.18 7703 7570 603 10.18 7703 7570 603 10.18 7703 7570 7570 7570 7570 7570 7570 7570	4	gat	17	200		48425	0	**	Æ.	17	74	6469	7.14
1.03 71356 60694 46670372 80°, 1 1°77 16945 12968 73324 85°, 1 1°03 71356 60694 46670372 80°, 1 1°045 14968 73324 4687037 72°, 1 1°04 1799 14968 73324 73324 72°, 1 1°04 1799 14968 73324 72°, 1 1°04 1799 14968 73324 72°, 1 1°04 1799 14968 73324 72°, 1 1°04 1799 14969 73°, 1 1°04 1799 14969 73°, 1 1°04 1799 14969 73°, 1 1°04 1799 14969 73°, 1 1°04 1799 14969 73°, 1 1°04 1799 14969 73°, 1 1°04 1799 14969 73°, 1 1°04 1799 14969 73°, 1 1°04 1799 74°, 1 1°04 1799 74°, 1 1°04 1799 14969 73°, 1 1°04 1799 14969 73°, 1 1°04 1799 14969 73°, 1 1°04 1799 1799 74°, 1 1°04 1799 1799 1799 1799 1799 1799 1799 179	10	_	16	517		10286	74.1	**	-	07	02	7269	51.6
1.03 71156 60694 4440542 79°5 11°69 14998	9	91	24	534	00	16760	73.1	**	C.	-	8 1	1499	100
1.00 65126 55990 4449542 79.5 1.69 17793 13690 733277 55.0 1.00 6655 55.2 1.00 6655 55.2 1.00 17793 13690 733277 55.0 1.00 1723 13650 732243 75.0 1.00 1723 13650 73277 12560	1		03	115	50	86037	0	**	-	22	98	5534	0
1.15 64264 54574 4667057 65.9 1.91 17231 13437 72243 72.4 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05	9	get	0.0	512	30	116677	0	24	0	779	89	3127	0
1.83 66863 57358 4152243 72.4 16957 15568 663479 550 1.00 74179 64123 5546260 6631 17.85	6	94	16	156	3.3	68705	No.	**	0	723	2 0	5663	227
1.00 74179 64123 5646260 88.1 1.00 1.00 1.00 1.00 1.00 1.00 1.0	0	91	33	989	53	15224	0	**	0	695	55	6317	0
1037 67126 57513 5579832 97.0 2.45 17035 13512 601350 601351	-	~	90	417	N	97979		**	30	054	7 5	6140	-
\$ 1.255	OZ.	-	57	712	5	57983	1		2	703	-	0135	6
1. 3.02 77935 65405 4701402 71.9 1. 4.95 17588 13609 62271 45.5 45.	~	~	35	552	2	67071	-	**	80	60	70	2322	80
2.54 78719 67625 5840757 86.4 :: 4.23 18080 15403 754354 49. 2.15 84588 71506 6289169 88.0 :: 3.62 18143 14466 710797 49. 2.25 84328 77614 6505041 90.8 :: 3.25 16636 13797 760944 550. 2.25 81373 72400 72589 100.0 :: 4.18 15277 15901 808862 524. 2.20 84393 72400 793819 100.7 :: 5.45 15277 15901 808862 62.	3	In.	02	193	0	70140		**	0	9	80	2271	30
2.15 8456 71506 6289169 88.0 :: 3.62 18143 14466 710797 449 7. 2.02 84323 77614 6505041 90.8 :: 3.25 16636 13797 731270 554 3. 2.25 81373 72400 7267727 101.0 :: 3.59 15277 12901 808862 622 3.20 84393 7240 736819 10677 :: 5.45 15277 12901 808862 622	2		54	373	762	84075	9	**	ev.	96	07	5435	
7. 2.02 84328 71614 6505041 90.8 :: 3.25 16636 13797 786944 556. 3. 2.25 81675 771930 7267927 1010 :: 3.59 16197 13410 731270 54. 3. 2.35 81393 7240 793819 107 :: 5.45 15277 12901 808862 65. 3.20 84106 73061 6647534 91.0 :: 5.45 15894 12722 888967 46.	9		5	158	150	28916	8	**	9 .	9 4	977	1079	6
3 : 2.25 81575 71930 7267927 101.0 :: 3.59 16197 13410 731270 544 1 : 2.52 81393 72400 7938819 1097 :: 4.18 15277 12901 808862 62. 2 : 3.20 84106 73061 6647534 91.0 :: 5.45 15894 12722 487997 46.	1		02	135	161	50504	0	**	N	63	40	8094	9
3.20 84106 73061 6647534 91.0 :: 5.45 15894 17722 487997 46.	30		S	167	193	26192	0	**	S.	19	6 17	3127	7
) : 3.20 A4106 73061 6647534 91.0 :: 5.45 15894 17722 567997 4	0	2	25	39	240	93881	0	**	-	23	06	0886	P
	0	. 3.	20	110	306	6475	-	**	4	89	72	8799	46.2

1/ 1974-1978 acreage, yield, and production revised per December 1980 Field Grops Report, Stat. Bul. No. 646. SOURCE: Crop Reporting Board, USDA.

Table 12,--0ats and barley: Farm prices, acreage, production, and yield, 1950 to 1980 $\underline{1}/$

			Date						-	partey		
Year	Farm	Planted acreage	Harvested	: Production	: Yield per : harvested : acre	** ** **	Farm	Planted	** ** **	Harvested	Production	 Yield per harvested acre
	: Dol. per	1,000	1,000	1,000		**	Dol. per	1,000		1,000	1,000	
	pnsh	acres	acres	pushels	Bushels	** **	bushel	acres		acres	bushels	Bushels
1950	-	504	39306	1369199	34.8	**	1,19	13010		11155	303772	27.2
151		101	523	2776	36.3	**	1.26	10790		0424	5721	-
52	0.7	234	-	7	35.9	46	1037	9190		8236	228.168	27.7
53	. 0.74	43220	37530	5320	30.7	6.6 E.E.	1.17	9615		8680	246723	28.4
154	0	689	40551	-2	340.8	**	1.09	14740		13370	7925	28.4
25	0	749	39027	6597	100 mg	**	0.92	50		14523	0	27.8
56	0.0	420	33333	1513	10 a 10 a	**	6600	14732		12852	376661	29.3
157	00	184	34065	89	37.9	**	0.89	16398		14872	442761	29.8
58	0	769	31247	40	4 0 0	**	0600	16150		14791	477368	32.3
65	0.0	506	27758	1050051	3700	**	0.86	16766		14869	420203	100
00	0	141	26588	1153332	43.4	**	0.84	15527		13856	429005	31.0
61	9°0 :	231	23886	1010314	42.3	61	0.	15623		12806	392441	30.6
29	0	950	22377	1012197	45.2	**	0.92	14380		12214	427726	35.0
63	9.6	805	21308	965510	10 m	41	06.0	13452		11236	392833	35.0
79		563	19759	852287	43.1	**	0.95	11652		10277	386059	37.6
6.5		100	18522	929554	5000	**	1.02	10123		9166	393055	42.9
99	-	334	17877	803324	0.77	**	1.06	11184		10250	0	38.3
19		071	16110	793800	49.3	**	1.01	10077		9230	-	40.5
999	-	334	17708	950689	53.7	**	0.92	10486		9732	426151	43.8
69	0	356	17971	-0	53.7	**	0.88	10201		9557	427055	44.7
0.4	-	1441	18594	-	0	**	16.0	10476		9712	416091	400
7.2	-	183	15705	878079	100	**	6600	11061		10104	462423	45.8
72	0.7	666	13410	690616		**	1.21	10501		9645	421719	43.7
73	1.1	960	13770	659136	47.9	**	2.14	11045		10295	417434	40.5
74	9	701	12608	C	47.6	**	2.81	8713		7930	298669	37.7
75	2 . 2	643	13038	389	0.67	**	70	9373		8617	379162	-3
70	un	10620	11634	40	S	**	2,25	9301		8439	383007	45.4
77	-	773	13485	527	M	**	1.78	10778		9728	427784	0.44
78	TV.	10407	11120	581657		**	0	9966		9726	054750	2.67
44	643	13957	6496	526551	4	**	N	8110		7522	382708	50.0
80	8	13360	8640	75		**	2.80	6263		7233	358544	9.67
						**						

1/1974-1978 acreage, yield, and production revised per December 1980 Field Crops Report, Stat. Bul. No. 646. SOURCE: Crop Reporting Board, USDA.

Table 13.--Livestock, poultry and milk-feed price ratios, by months, 1975-81

Year :					:	:	:		1	:		:	:	:
beginning October	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	:	July	Aug.	Sept.	Average
occoper :		:	:		:	:	:	:	:	:		:	:	:
:														
									- 1					
075	00	2 21 1	20.0	10 5	10.0		RN, U.S				160			
	22.			19.5	19.3	18.2		18.2			16.9	16.1	15.3	18.7
	14.			16.3	16.8	15.8		18.1			23.8	26.3	25.2	18.6
1977 :	23.			22.0	23.4	21.6		20.9			21.0	23.9	24.2	21.9
	14.			24.0	24.1	21.8		18.4			14.4	14.3		19.9
	15.			14.8 12.8	15.4	13.9		11.9	13.3		15.1	15.8	15.3	14.4
1900 2/	13.0	14.9	13.0	12.0	12.0	11.9	12.2							
					1	BEEF-ST	EER/COR	N. Oma	ha 3/					
.975 :	17.	4 17.7	17.6	16.0	14.9	13.8		14.8			13.4	13.8	14.3	15.4
	16.			16.1		15.9		19.0			21.5			
	23.			21.6	22.2	22.7		24.5			25.6			
	26.			28.5		32.7		30.8			25.0			
	27.			29.4		30.0		26.6			25.3			
	21.			19.1		19.4					2202			-,
							ED, U.S							
L975 :				1.5		1.4		1.4			1.3			
L976 :				1.3		1.3		1.2			1.4			
L977 :				1.5		1.5		1.5			1.5			
L978 :				1.6		1.6		1.5			1.4			
L979 <u>2/</u> :				1.5		1.6		1.5	1.5	5	1.5	1.4	1.4	1.5
1980 2/	1.	4 1.4	1.4	1.4	1.4	1.4	1.4							
						EGG/FEE	D. U.S.	Basis	5/					
1975	7.	1 8.1	1 9.0	8.6	8.2	7.4	7.3	7.5	6.8	8	6.8	7.6	7.7	7.7
1976 :	7.	8 8.7	7 9.1	8.5	8.1	7.3	6.8	5.9	5.8	8	6.7	7.2	7.6	7.5
1977	7.	1 7.3	3 7.4	6.7	7.5	7.4	6.7	6.3	3 5.0	6	6.4	7.0	7.3	6.9
1978 :	7.	0 7.5	5 8.0	7.8	7.7	8.0	7.4	6.9	6.	7	6.1	6.1	6.4	7.1
1979 2/	: 6.	1 6.8	3 7.3	6.6	5.9	6.3	6.0	5.3	3 5.	5	5.7	6.0	6.2	2 6.2
1980 2/	5.	7 6.0	0 6.6	5.9	5.7	5.	7 6.0							
_	:													
							FEED, U							
1975	: 3.			3.1				3.:			2.8			
	: 2.			2.5				2.			3.0			
	: 3.			2.8				3.			3.7			
	: 2.			3.1				3.			2.5			
	: 2.			2.8					5 2.	6	3.3	3 3.0	0 2.9	9 2.7
1980 2/	: 2.	8 2.	5 2.5	2.5	5 2.6	2.	6 2.3							
	*									,				
1000	:	-	-				FEED,				-	2 2		1 0
		3 4.		4.0							3.3			
1976		5 3.		3							3			
1977		.3 4.		4							4			
1978		.0 5.		5.0							3			
1979 2/		.9 4.		3.					1 3.	1	3	5 3.	5 3.	7 3.
1980 2/	: 3	9 3.	8 3.5	3.	1 3.	1 3.	2 3.0							

1/ Number bushels of corn equal in value to 100 lbs. of hog liveweight. 2/ Preliminary.
3/ Based on price of beef-steers 900-1,100 pounds, choice instead of average grade all steers previously published. 4/ Pounds 16% dairy feed equal in value to one pound whole milk. 5/ Number of pounds of laying feed equal in value to one dozen eggs. 6/ Number of lbs. of broiler grower feed equal in value to one lb. broiler liveweight. 7/ Pounds of turkey grower feed equal in value to one lb. turkey liveweight.

Source: Agricultural Prices, Crop Reporting Board, USDA.

Table 14.-- Cash prices at principal markets, 1976-81

Year beginnin October		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Ju1y	Aug.	Sept.	: :Simple :average
OCCODEL	:		: :		:					:	:		:
	:						Dollar	S					
	:			(CORN, No.	2 Yel:	Low, Chi	lcago (er bush	nel)			
976	: 2.49	2.33	2.44	2.53	2.54	2.52	2.50	2.41	2.27	2.05	1.78	1.80	2.30
977	: 1.84	2.14	2.19	2.19	2.21	2.36	2.51	2.57	2.51	2.28	2.17	2.13	2.26
.978	: 2.22	2.28	2.27	2.29	2.35	2.42	2.53	2.66	2.83	3.00	2.82	2.78	2.54
979	: 2.73	2.59	2.69	2.54	2.65	2.60	2.61	2.70	2.70	3.08	3.36	3.44	2.81
980	: 3.43	3.43	3.54	3.56	3.49	3.48	*3.53						
	:												
	:				CODM N	. 0 **	11 0			41			
076	2.36	2.17	2.30	2.38	2.38	2.35	ellow, C	2.21	2.10		1.66	1.67	2.15
.976 .977		2.02	2.04	2.02	2.03	2.14	2.25	2.34	2.33	1.90	1.98	1.95	2.13
.978	: 1.79	2.04	2.09	2.12	2.13	2.17	2.26	2.40	2.59	2.68	2.45	2.37	2.28
.979	: 2.37	2.32	2.36	2.26	2.33	2.23	2.32	2.43	2.50	2.81	2.98	3.01	2.49
.980	: 3.16	3.34	3.30	3.29	3.18	3.17	*3.24	2073	2.30	2.01	2.70	3.01	2.72
500	: 3.10	3.34	3.30	3.23	3.10	3.11	. 3.24						
	:			SO	RGHUM, No	. 2 Ye.	11ow, Ka	ansas C	ity (pe	r cwt.)			
.976	: 3.88	3.60	3.77	3.91	3.85	3.75	3.62	3.53	3.28	3.15	2.73	2.78	3.49
977	: 3.05	3.40	3.36	3.37	3.49	3.78	3.92	3.92	3.82	3.54	3.41	3.43	3.54
.978	: 3.61	3.67	3.64	3.71	3.73	3.77	3.81	3.92	4.41	4.89	4.44	4.34	4.00
.979	: 4.42	4.41	4.57	4.21	4.35	4.20	4.09	4.31	4.49	5.36	5.71	5.61	4.65
L980	: 5.65	5.91	5.82	5.79	5.52	5.46	*5.49						
	:												
	:	:	:		0 1	:				:	:		:
Year													:Simple
eginnir	ng June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	:average
June	:	:	:				:		:	:	:	:	:
	:					Dol1	ars per	bushel					
	:												
	:												
	2						2 Heavy						
1976	: 1.93	1.84	1.67	1.67	1.66	1.62	1.67	1.78	1.80	1.76	1.81	1.68	1.74
1977	: 1.38	1.15	1.02	1.11	1.17	1.34	1.32	1.32	1.32	1.33	1.40	1.43	1.27
L978	: 1.36	1.24	1.28	1.36	1.39	1.47	1.40	1.47	1.54	1.60	1.48		1 / 2
												1.55	1.43
	: 1.68	1.60	1.47	1.55	1.65	1.67	1.59	1.52	1.50	1.48	1.52	1.62	1.57
				1.55			1.59 2.16						
	: 1.68	1.60	1.47		1.65	1.67		1.52	1.50	1.48	1.52		
	: 1.68	1.60	1.47	1.86	1.65 1.96	1.67 2.15	2.16	1.52 2.20	1.50 2.25	1.48	1.52		
1980	: 1.68 : 1.67 :	1.60 1.80	1.47 1.70	1.86	1.65 1.96 BARLEY,	1.67 2.15	2.16 or Bette	1.52 2.20	1.50 2.25 Minnea	1.48 2.23	1.52 *2.21	1.62	1.57
1980 1976	: 1.68 : 1.67 : : : 2.62	1.60 1.80	1.47 1.70	2.68	1.65 1.96 BARLEY,	1.67 2.15 No. 2 o	2.16 or Bette 2.05	1.52 2.20 r Feed, 2.20	1.50 2.25 Minnea 2.35	1.48 2.23 polis 2.29	1.52 *2.21	2.13	2.35
1980 1976 1977	: 1.68 : 1.67 : : : : 2.62 : 1/1.76	1.60 1.80	1.47 1.70	2.68 1.58	1.65 1.96 BARLEY, 2.46 1.66	1.67 2.15 No. 2 c 2.21 1.65	2.16 or Bette 2.05 1.65	1.52 2.20 r Feed, 2.20 1.65	1.50 2.25 Minnea 2.35 1.65	1.48 2.23 polis 2.29 1.66	1.52 *2.21 2.28 1.91	2.13 1.90	2.35 1.68
1976 1977 1978	: 1.68 : 1.67 : : : : 2.62 : 1/1.76 : 1.84	1.60 1.80 2.45 1.63 1.71	1.47 1.70 2.48 1.50 1.68	2.68 1.58 1.77	1.65 1.96 BARLEY, 2.46 1.66 1.81	1.67 2.15 No. 2 o 2.21 1.65 1.88	2.16 or Bette 2.05 1.65 1.79	1.52 2.20 r Feed, 2.20 1.65 1.71	1.50 2.25 Minnea 2.35 1.65 1.69	1.48 2.23 2.29 1.66 1.86	1.52 *2.21 2.28 1.91 1.89	2.13 1.90 1.96	2.35 1.68 1.80
1980 1976 1977 1978 1979	: 1.68 : 1.67 : : : : 2.62 :1/1.76 : 1.84 : 2.16	2.45 1.63 1.71 2.39	2.48 1.50 1.68 2.15	2.68 1.58 1.77 2.22	1.65 1.96 BARLEY, 2.46 1.66 1.81 2.34	1.67 2.15 No. 2 o 2.21 1.65 1.88 2.11	2.16 or Bette 2.05 1.65 1.79 2.15	1.52 2.20 r Feed, 2.20 1.65 1.71 2.09	1.50 2.25 Minnea 2.35 1.65 1.69 2.04	1.48 2.23 2.29 1.66 1.86 2.06	1.52 *2.21 2.28 1.91 1.89 2.12	2.13 1.90	2.35 1.68
1980 1976 1977 1978 1979	: 1.68 : 1.67 : : : : 2.62 : 1/1.76 : 1.84	1.60 1.80 2.45 1.63 1.71	1.47 1.70 2.48 1.50 1.68	2.68 1.58 1.77	1.65 1.96 BARLEY, 2.46 1.66 1.81	1.67 2.15 No. 2 o 2.21 1.65 1.88	2.16 or Bette 2.05 1.65 1.79	1.52 2.20 r Feed, 2.20 1.65 1.71	1.50 2.25 Minnea 2.35 1.65 1.69	1.48 2.23 2.29 1.66 1.86	1.52 *2.21 2.28 1.91 1.89	2.13 1.90 1.96	2.35 1.68 1.80
1976 1977 1978 1979	: 1.68 : 1.67 : : : : 2.62 :1/1.76 : 1.84 : 2.16	2.45 1.63 1.71 2.39	2.48 1.50 1.68 2.15	2.68 1.58 1.77 2.22	1.65 1.96 BARLEY, 2.46 1.66 1.81 2.34	1.67 2.15 No. 2 o 2.21 1.65 1.88 2.11	2.16 or Bette 2.05 1.65 1.79 2.15	1.52 2.20 r Feed, 2.20 1.65 1.71 2.09	1.50 2.25 Minnea 2.35 1.65 1.69 2.04	1.48 2.23 2.29 1.66 1.86 2.06	1.52 *2.21 2.28 1.91 1.89 2.12	2.13 1.90 1.96	2.35 1.68 1.80
1976 1977 1978 1979	: 1.68 : 1.67 : : : : 2.62 :1/1.76 : 1.84 : 2.16	2.45 1.63 1.71 2.39	2.48 1.50 1.68 2.15 2.39	2.68 1.58 1.77 2.22 2.43	1.65 1.96 BARLEY, 2.46 1.66 1.81 2.34 2.77	1.67 2.15 No. 2 o 2.21 1.65 1.88 2.11 3.03	2.16 or Bette 2.05 1.65 1.79 2.15 2.75	1.52 2.20 er Feed, 2.20 1.65 1.71 2.09 2.81	1.50 2.25 Minnea 2.35 1.65 1.69 2.04 2.90	1.48 2.23 2.29 1.66 1.86 2.06 2.63	1.52 *2.21 2.28 1.91 1.89 2.12 *2.51	2.13 1.90 1.96 2.09	2.35 1.68 1.80
1980 1976 1977 1978 1979	: 1.68 : 1.67 : : : 2.62 :1/1.76 : 1.84 : 2.16 : 2.15 :	2.45 1.63 1.71 2.39 2.48	2.48 1.50 1.68 2.15 2.39	2.68 1.58 1.77 2.22 2.43	1.65 1.96 BARLEY, 2.46 1.66 1.81 2.34 2.77	1.67 2.15 No. 2 o 2.21 1.65 1.88 2.11 3.03	2.16 or Bette 2.05 1.65 1.79 2.15 2.75	1.52 2.20 r Feed, 2.20 1.65 1.71 2.09 2.81	1.50 2.25 Minnea 2.35 1.65 1.69 2.04 2.90	1.48 2.23 2.29 1.66 1.86 2.06 2.63	1.52 *2.21 2.28 1.91 1.89 2.12 *2.51	2.13 1.90 1.96 2.09	2.35 1.68 1.80
1980 1976 1977 1978 1979 1980	: 1.68 : 1.67 : : : 2.62 :1/1.76 : 1.84 : 2.16 : 2.15 :	2.45 1.63 1.71 2.39	2.48 1.50 1.68 2.15 2.39 BARLE	2.68 1.58 1.77 2.22 2.43 Y, No.	1.65 1.96 BARLEY, 2.46 1.66 1.81 2.34 2.77 3 or Bet 3.21	1.67 2.15 No. 2 c 2.21 1.65 1.88 2.11 3.03	2.16 or Bette 2.05 1.65 1.79 2.15 2.75 ting, 6 2.95	1.52 2.20 r Feed, 2.20 1.65 1.71 2.09 2.81	Minnea 2.35 1.65 1.69 2.04 2.90	1.48 2.23 2.29 1.66 1.86 2.06 2.63	1.52 *2.21 2.28 1.91 1.89 2.12 *2.51	2.13 1.90 1.96 2.09	2.35 1.68 1.80 2.16
1976 1977 1978 1979 1979 1980	: 1.68 : 1.67 : : 2.62 :1/1.76 : 1.84 : 2.16 : 2.15 :	2.45 1.63 1.71 2.39 2.48	2.48 1.50 1.68 2.15 2.39	2.68 1.58 1.77 2.22 2.43 Y, No. 3.24 2.15	1.65 1.96 BARLEY, 2.46 1.66 1.81 2.34 2.77 3 or Bet 3.21 2/2.25	1.67 2.15 No. 2 c 2.21 1.65 1.88 2.11 3.03 ter MaJ 3.00 2.36	2.16 or Bette 2.05 1.65 1.79 2.15 2.75	1.52 2.20 r Feed, 2.20 1.65 1.71 2.09 2.81	1.50 2.25 Minnea 2.35 1.65 1.69 2.04 2.90	1.48 2.23 2.29 1.66 1.86 2.06 2.63	2.28 1.91 1.89 2.12 *2.51 (inneapo	2.13 1.90 1.96 2.09	2.35 1.68 1.80 2.16
1976 1977 1978 1979 1980	: 1.68 : 1.67 : : 2.62 :1/1.76 : 1.84 : 2.16 : 2.15 : : : :	2.45 1.63 1.71 2.39 2.48	1.47 1.70 2.48 1.50 1.68 2.15 2.39 BARLE 3.37	2.68 1.58 1.77 2.22 2.43 Y, No.	1.65 1.96 BARLEY, 2.46 1.66 1.81 2.34 2.77 3 or Bet 3.21	1.67 2.15 No. 2 c 2.21 1.65 1.88 2.11 3.03	2.16 Pr Bette 2.05 1.65 1.79 2.15 2.75 Lting, 6 2.95 2.32	1.52 2.20 r Feed, 2.20 1.65 1.71 2.09 2.81 55% or F	1.50 2.25 Minnes 2.35 1.65 1.69 2.04 2.90 Setter F 2.91 2.33	1.48 2.23 polis 2.29 1.66 1.86 2.06 2.63 Plump, M	1.52 *2.21 2.28 1.91 1.89 2.12 *2.51 Kinneapo 2.91 2.44	2.13 1.90 1.96 2.09	2.35 1.68 1.80 2.16
1976 1977 1978 1979 1979 1980	: 1.68 : 1.67 : : 2.62 :1/1.76 : 1.84 : 2.15 : : : 3.55 : 2.38 : 2.39	1.60 1.80 2.45 1.63 1.71 2.39 2.48	2.48 1.50 1.68 2.15 2.39 BARLE 3.37 1.92 2.19 2.67	2.68 1.58 1.77 2.22 2.43 Y, No. 3.24 2.15 2.27 3.10	1.65 1.96 BARLEY, 2.46 1.66 1.81 2.34 2.77 3 or Bet 2/2.25 2.26	1.67 2.15 No. 2 c 2.21 1.65 1.88 2.11 3.03 ter Mal 3.00 2.36 2.47	2.16 or Bette 2.05 1.65 1.79 2.15 2.75 dring, 6 2.95 2.32 2.40	1.52 2.20 r Feed, 2.20 1.65 1.71 2.09 2.81 3.00 2.26 2.30	Minnea 2.35 1.65 1.69 2.04 2.90 Setter F 2.91 2.33 2.33	1.48 2.23 2.29 1.66 1.86 2.63 2.10 2.29 2.32 2.32 2.46	1.52 *2.21 2.28 1.91 1.89 2.12 *2.51 (inneapo 2.91 2.44 2.59 2.73	2.13 1.90 1.96 2.09	2.35 1.68 1.80 2.16
1976 1977 1978 1979 1980 1976 1977 1978	: 1.68 : 1.67 : : : 2.62 :1/1.76 : 1.84 : 2.16 : 2.15 : : : 3.55 : 2.38 : 2.39 : 2.80	2.45 1.63 1.71 2.39 2.48 3.59 2.02 2.13 2.82	1.47 1.70 2.48 1.50 1.68 2.15 2.39 BARLE 3.37 1.92 2.19	1.86 2.68 1.58 1.77 2.22 2.43 Y, No. 3.24 2.15 2.27	1.65 1.96 BARLEY, 2.46 1.66 1.81 2.34 2.77 3 or Bet 3.21 2/2.25 2.26 3.18	1.67 2.15 No. 2 c 2.21 1.65 1.88 2.11 3.03 ter MaJ 3.00 2.36 2.47 3.06	2.16 or Bettee 2.05 1.65 1.79 2.15 2.75 tring, 6 2.95 2.32 2.40 2.93	1.52 2.20 2.20 1.65 1.71 2.09 2.81 55% or F 3.00 2.26 2.30 2.30 2.87	1.50 2.25 Minnea 2.35 1.65 1.69 2.04 2.90 Setter F 2.91 2.33 2.33 2.33 2.81	1.48 2.23 2.29 1.66 1.86 2.06 2.63 2.98 2.32 2.46 2.69	1.52 *2.21 2.28 1.91 1.89 2.12 *2.51 (inneapo 2.91 2.44 2.59 2.73	2.13 1.90 1.96 2.09	2.35 1.68 1.80 2.16
1979 1980 1976 1977 1978 1979 1980 1976 1977 1978 1979 1980	: 1.68 : 1.67 : : : 2.62 :1/1.76 : 1.84 : 2.16 : 2.15 : : : 3.55 : 2.38 : 2.39 : 2.80	2.45 1.63 1.71 2.39 2.48 3.59 2.02 2.13 2.82	2.48 1.50 1.68 2.15 2.39 BARLE 3.37 1.92 2.19 2.67	2.68 1.58 1.77 2.22 2.43 Y, No. 3.24 2.15 2.27 3.10	1.65 1.96 BARLEY, 2.46 1.66 1.81 2.34 2.77 3 or Bet 3.21 2/2.25 2.26 3.18	1.67 2.15 No. 2 c 2.21 1.65 1.88 2.11 3.03 ter MaJ 3.00 2.36 2.47 3.06	2.16 or Bettee 2.05 1.65 1.79 2.15 2.75 tring, 6 2.95 2.32 2.40 2.93	1.52 2.20 2.20 1.65 1.71 2.09 2.81 55% or F 3.00 2.26 2.30 2.30 2.87	1.50 2.25 Minnea 2.35 1.65 1.69 2.04 2.90 Setter F 2.91 2.33 2.33 2.33 2.81	1.48 2.23 2.29 1.66 1.86 2.06 2.63 2.98 2.32 2.46 2.69	1.52 *2.21 2.28 1.91 1.89 2.12 *2.51 (inneapo 2.91 2.44 2.59 2.73	2.13 1.90 1.96 2.09	2.35 1.68 1.80 2.16

1/ Prior to June 1977, No. 3 Feed. 2/ Prior to October 1977, 70% or better plump. *Preliminary.

Source: Grain Market News, AMS, USDA.

Table 15.--Average prices received by farmers, United States, by months, 1976-81

Year					: :			:	:	:			: Average
eginning	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.		:weighted :by sales
October:			:	:					:				: <u>1</u> /
:							Dol1	ars			-	-	• =/
						COR	N, per	hucha1	2/				
976 :	2.33	2.02	2.24	2.34	2.34	2.35	2.31	2.25	2.12	1.88	1.63	1.60	2.15
.977 :	1.67	1.88	1.97	2.00	2.03	2.15	2.24	2.29	2.28	2.16	2.01	1.98	2.02
1978 :	1.97	2.02	2.09	2.11	2.18	2.22	2.27	2.35	2.49	2.64	2.54	2.51	2.25
1979 :	2.41	2.27	2.38	2.45	2.39	2.40	2.36	2.42	2.49	2.73	2.92	3.01	2.52
.980 :	2.99	3.10	3.19	3.19	3.22	3.25	*3.20						3.20
:													
:						CODCUIT	M nom	100	da 2/				
976	3.68	3.30	3.51	3.59	3.51	3.55	3.44	3.20	3.12	2.84	2.63	2.52	3.62
1977 :	2.80	3.03	3.05	3.15	3.20	3.39	3.62	3.66	3.64	3.50	3.37	3.22	3.25
L978 :	3.35	3.45	3.58	3.54	3.55	3.54	3.58	3.66	4.30	4.46	4.27	4.24	3.59
1979 :	3.90	3.99	3.90	4.05	3.98	4.05	3.96	4.04	4.49	4.95	5.12	5.12	4.18
1980 :	5.36	5.44	5.49	5.48	5.33	5.17	*5.21	4004		71.75	3.14	2.14	5.45
:				5.10	3.00	247.	3.21						3.43
:													
:		:	*	:	: :			:	6	:	*	:	: Average
Year	T											:	:weighted
June	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	:by sales
June :		:	:	*	:		:	:	1	1	:	:	: 1/
:						Do1	lars pe	er bush	el el				
1976 :	1 (/	1 (1	1.48	1.49	1 16	2 / 5	OATS		1.63	2 (1		1 50	
1977 :	1.64	1.64	.93	.94	1.46	1.45	1.51	1.58		1.64	1.64	1.52	1.56
1978 :		1.08			1.04	1.10	1.13	1.18		1.17	1.19	1.24	1.10
1979 :	1.35	1.33	1.06	1.06	1.08	1.15	1.19	1.22		1.27	1.29	1.29	1.20
1980 :	1.48	1.50	1.53			1.41		1.39		2.08	*2.04	1.43	1.80
1,000 :	1.40	1.50	1.33	1.63	1.65	1.84	1.92	1.90	2.01	2.00	~2.04		1.00
:							BARLI	EY 2/					
1976 :	2.60	2.51	2.35	2.33	2.22	2.11	2.08	2.19		2.25	2.22	2.12	2.25
1977 :	2000	1.53	1.53	1.69	1.63	1.82	1.79	1.90			1.93	2.15	1.78
1978 :		1.83	1.86	1.85	1.90	1.93	1.90	1.95		1.98	1.96	2.07	1.92
1979 :		2.22	2.23	2.33	2.32	2.40	2.31	2.27			2.15	2.21	2.29
1980 :	2.36	2.52	2.59	2.65	2.81	2.90	2.97	3.09	3.05	3.04	*2.97		2,80
Year		1	:	:		:	:	:	:	:	:	:	Average
beginning	May	June	July	. Aug.	: Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	. Apr.	weighted
May													by sales
			•	•		• Т	ollars	ner to	'n	*	*		
						-	JULIALS	per co					
	64.10	50 60	50 00	58.70	60 90	60 10		50 00	60 00	62.70	62 00	63.20	60.30
	64.10	59.60				60.10		59.00					
	68.10	61.30		52.50				49.50					
	55.30	51.20		49.00		47.10		47.30					
	65.60	58.00		57.50		60.80	58.50						
	69.10	64.00	66.50	68.40	70.40	13.80	74.60	75.20	73.80	74.00	/1.00	72.70	69.80

 $[\]underline{1}/$ Includes an allowance for unredeemed loans and purchase agreement deliveries valued at the average loan rate, by States; excludes government payments. $\underline{2}/$ Prior to January 1977 mid-month prices. *Preliminary (mid-month price).

Source: Agricultural Prices, Crop Reporting Board, USDA.

Table 16 .-- Price trends, selected feeds and corn products

	10		Ont Comp			-				
Item	: Unit	** *	1979/80	. Tanious		Pohemonn		Mowoh	** *	Anna & 1
			1/			or dat y		II CII		TT 1d
WHOLESALE, MOSTLY BULK 2/		**								
Soybean meal, 44%, solvent, Decatur	:Dol./short	ton :	182	577		212	7	210		222
Soybean meal, high protein, Decatur		**	198	240		229	2	226		239
Cottonseed meal, 41%, expeller, Memphis		**	164	205		179	1	185		207
Linseed meal, 34%, solvent, Minneapolis		**	154	191		150	1	50		158
Peanut meal, 50%, S.E. Mills		**	186	-		230	2	113		210
Meat meal, 50%, Illinois Prod. Points		**	227	261		238	2	225		240
Fishmeal, 65%, domestic, Rast Coast	14		380	699		421	7	0.5		017
Cluton food 60% Chicago			125	140		120		37		101
Olimpia most 60% Obtoboo			276	308		202	40	230		177
			011	370		767	7	20		233
brewers dried grains, 24%, Unicago			OTT	149		777	,	94		111
		**	138	175		168	7	53		145
Feather meal, Jackson, Mississippi		**	234	314		276	2	245		258
Wheat bran, Kansas City		**	95	123		66		97		104
Wheat middlings, Kansas City	=	**	95	123		66		26		104
Rice bran, Arkansas		**	79	107		78		89		69
Hominy feed, Illinois Points			88	118		104	1	100		111
Alfalfa meal, 17%, dehy., Kansas City	=	**	110	136		132	1	126		126
Cane molasses, New Orleans		**	91	117		118	1	115		103
Molasses beet pulp, Los Angeles	=	**	126	144		153	i	-		138
Animal fat, Chicago	=	**	15.3	16.3		16.2	16	16.4		8.9
Urea, 42%, N., Fort Worth	=	**	198	215		215	2	228		228
Corn. No. 2, white, Kansas City	: Dol./bu.	**	4.70	5.59		5.57	5.	5.42	2	5.35
PRICES PAID, U.S. BASIS 3/		***								
Sovbean meal, 44%	: Dol./cwt.	**	12.92	15.90	15	15.50	15.	00	1.	15.20
Cottonseed meal, 41%	14		12.61	15.60	10	15.50	15.40	07	10	15.30
Wheat bran	=		90.6	10.60	10	09.0	10.50	50	10	10.50
Wheat middlings		**	8.89	10.20	10	10.20	10.10	10	10	10.00
Broiler grower feed	:Dol./short ton	: uo	197	237		238	2	229		234
Lavino feed			178	218		219	2	215		215
Turkey eromer feed	**	9.0	210	257		255	6	254		254
Chick of other rece			203	296		265	10	238		242
Dairy food 16%			168	203		201	-	196		107
Doof nottle concentrate 32.369	. Dol loss		10.68	12 80	3.5	12 60	12 10	200	10	10 00
	. DOT./CMC.		14. 28	16 90	16	30	15	0 0	16	200
hog concentrate, 30-42%, protein	=		07.47	10.90	DT	10.30	10.CI	000	TOT	10.20
			4.00	00.0	n	10.0	0.0	70		.04
CORN PRODUCTS, WHOLESALE 4/		**								
Corn meal, New York		**	-							
White	: Dol./cwt.		14.88	20.37	20	20.48	20.62	62	20	20.57
Yellow	=	**	11.19	13.32	13	13,48	13.62	62	13	13.56
Grits (brewers'), Chicago	=	• •	8.88	10.66	10	10.78	10.88	88	10	10.83
vrup. Chicago. West	: Cts./1b.	• •	12.42	16.71	16	16.71	16.20	20	15	69.
Sugar (dextrose), Chicago, West		**	22.98	31.16	29	29.90	28.21	21	27	27.65
High-fructose (dry weight tank car).	**	**								
Chicago West			20,10	23.94	22	22.53	22.53	53	22	22.54
Communication of the Miderack)	. Dal land		10.66	10 17	11	11 07	70 11	200	CL	10 76
A CONTRACTOR OF THE PARTY OF TH	" DOL " LOW L.		00°0T	TC. TG	TT	16.	TTT	100	/ 1	000

3/ Agricultural Prices, CRB, USDA. 4/ Milling and Baking News, Kansas City, Missouri, except starch which is from industry sources.

Table 17.--Feed grain support loan status, 1977-80 crops, as of May 13, 1981

Item	Placed under loan	Redeemed by farmers	Delivered to CCC	: In : reserve : program : 1/	: Loans :outstandir	: Total in : reserve ng: and loans :outstanding 1/
	*		Milli	ion bushels		.outstanding 1/
CORN	:					
1977 1978 1979 1980	: 1,159 : 642 : 558 : 832	689 582 470 361	94 2 2/	220 58 85 245	0 1 3 226	220 59 88 471
SORGHUM	:					
1977 1978 1979 1980	: 217 : 92 : 64 : 31	133 87 63 7	41 5 	<u>2/</u>	0 0 0 24	$\begin{array}{c} 1 \\ 0 \\ \frac{2}{24} \end{array}$
OATS	0 0					
1977 1978 1979 1980	: 83 : 25 : 12 : 6	56 25 12 4	3 2/ 	2/	0 0 0 3	2 2/ 0 3
BARLEY	*					
1977 1978 1979 1980	: 87 : 68 : 30 : 31	65 -63 27 15	3 2/ 	1 5 3 4	$\begin{array}{c} 0\\ \frac{2}{2}/\\ \frac{2}{12} \end{array}$	1 5 3 16
	:					500 000

 $\underline{1}$ / Reserve corn, sorghum, and oats have been called. $\underline{2}$ / Less than 500,000 bushels.

SOURCE: Agricultural Stabilization and Conservation Service.

	: 1980	Crops	1981 Crop	s
Requirements for Program Benefits	plantings to the are eligible for fits. There we or land diversi wheat or feed general wheat programs. Proceed within their not age (NCA) 1/ as benefits based	grains, nor grazing and hay ducers who plant ormal crop acre- re eligible for on higher target ose whose plant-	become eligible f payments and regu payments must rep plantings to thei There is no set—a diversion program feed grains, nor grazing and hay p Producers are not	or deficiency lar disaster ort their r ASCS office. side or land for wheat or special wheat rograms. required to NCA of their
	:			
	: Dollars pe	er bushel	Dollars per	bushel
Price Support Loan and Purchase Rates 2/	Corn Sorghum Barley Oats Wheat Rye	2.14 1.83 1.16 3.00	Corn Sorghum Barley Oats Wheat Rye	\$2.40 2.28 1.95 1.24 3.20 2.04
Farmer-owned Grain Reserve Loan Rates <u>3</u> /	: Corn : Sorghum : Barley : Oats : Wheat	\$2.40 2.28 1.95 1.23 3.30	Corn Sorghum Barley Oats Wheat	\$2.55 2.42 2.07 1.31 3.50
Target Prices <u>4</u> /	Corn Sorghum Barley Wheat	\$2.35/\$2.05 2.50/ 2.45 2.55/ 2.29	Corn Sorghum Barley Wheat	\$2.40 2.55 2.60 3.81
National Program Acreages 5/	Million Corn Sorghum Barley Wheat	84.1 12.8 8.7 75.0	: Million Ac : (prelimina : Corn : Sorghum : Barley : Wheat	
Harvested Acreages	Corn Sorghum Barley Wheat		:	
National Allocation Factors 6/	: Per : Corn : Sorghum : Barley : Wheat	100.0 94.8 100.0 100.0	:	cent ermined)
Disaster Payments for Prevented Plantings and Low Yields	<pre>per person for grain, rice, a programs combi</pre>	nd upland cotton ned. This is the limitation	: Same as 1980, bu : have the option : subsidized crop : Producers who ac : crop insurance w : ineligible for A payments on that	of accepting insurance. cept subsidize ill be SCS disaster

Continued

1/ A normal crop acreage (NCA) has been established for every farm based on the acreage of 14 nationally designated crops planted on the farm in 1977. NCA crops include barley, corn, dry edible beans, flax, oats, rice, rye, sorghum, soybeans, sugarbeets, sugarcane, sunflowers, upland cotton, and wheat. Additional crops may be included when recommended by the State ASC committee.

2/ Nonrecourse loans and purchases are available from county ASCS offices for wheat, rye, barley, and oats through March 31 and for corn and sorghum through May 31 of the following year. Loans mature on demand, but no later than the last day of the 9th calendar month following the month the loan is made. Loan rates are established for all counties to reflect the national average rates.

The interest rate on 1980-crop loans was 11-1/2 percent. The interest rate on 1981 crop loans is 14-1/2 percent. The 1981 crop loans will carry a "floating" interest rate, subject to adjustment each October 1 and April 1, to reflect the cost to the Commodity Credit Corporation (CCC) of borrowing money from the U.S. Treasury.

3/ To be eligible for the reserve, commodities must be under price support loan. Reserve agreements are for three years. Farmers receive annual payments in advance for storage, whether the grain is stored on or off the farm. Interest charges after the first year are waived on reserve loans, and first year interest was waived effective January 7, 1980 on corn entered in the reserve between October 22, 1979 and August 25, 1980 and on 1980-crop feed grains and wheat placed in the reserve. When prices rise and a reserve is released, farmers may repay their loans or keep their grain in the reserve. After release, storage payments stop on a State-by-State basis, depending on a State's average market price in the past month's latest reporting period. When prices rise further and a reserve is called, farmers must pay off their loans, or forfeit the grain, or begin to pay interest at the rate of 15-1/4 percent. All determinations on release and call are based on the national average market price of the commodity in relation to certain percentages of the then-current national average loan rate. Release levels have been 125 percent of the loan rates for feed grains and 140-150 percent for wheat. Call levels have been 140-145 percent of the loan rates for feed grains and 175-185 percent for wheat.

Basically, the reserve operates as it has since it was introduced in 1977, but there have been various changes in release and call levels, loan rates, storage payments, when entry into the reserve is permitted, interest charges on loans, and in the time farmers are allowed after call to redeem their loans.

4/ If the national weighted average market price received by farmers during the first 5 months of the marketing year (June through October for wheat and barley; October through February for corn and sorghum) is below the target price, deficiency payments may be made to eligible producers. Deficiency payment rates are the difference between the target price and the higher of (1) the national weighted average market price received for the first 5 months of the marketing year or (2) the national average loan rate. For 1980 crops, farmers who planted within their NCA are eligible for benefits based on higher target prices than those whose plantings exceed their NCA.

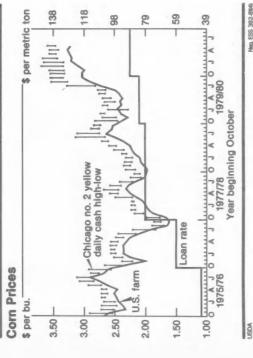
In order to qualify for full target price protection, farmers could not plant for harvest more wheat or corn, sorghum, or barley in 1980 or in 1981 than was considered planted for harvest of these crops the year before. Any deficiency payments to farmers who exceed this acreage will be subject to an allocation factor that could reduce payments by up to 20 percent.

5/ National program acreage (NPA) is the estimated acreage needed to meet domestic and export needs (less imports) plus any desired adjustments in stocks. The NPA may be adjusted later in the year, based on the most recent information, for the purpose of calculating the national allocation factor, which may be applied in determining deficiency payments.

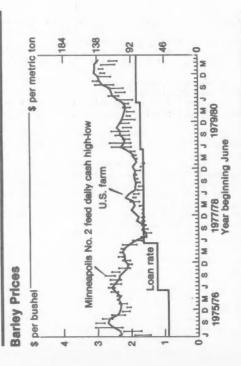
 $\underline{6}$ /The national allocation factor for each crop is determined by dividing the final national program acreage by the harvested acreage. By law, the factor cannot be less than 80 percent nor more than 100 percent.

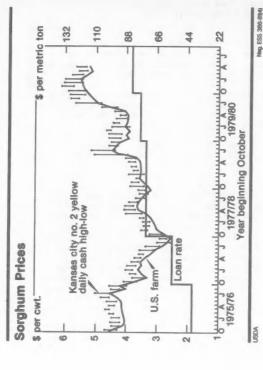
If deficiency payments are made, they are computed by multiplying the payment rate times the farm's established yield, times the number of acres planted for harvest. For farmers who are not eligible for full target price protection, this product then is multiplied by the national allocation factor.

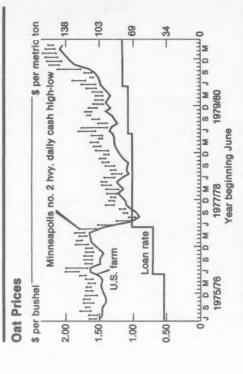
Deficiency payments are limited to \$50,000 per person for wheat, feed grain, rice, and upland cotton programs combined. This limitation is the same for 1980 and 1981 crops. It is separate from the limitation on payments for prevented planting or low yield disaster losses. Nor does it apply to CCC loans or purchases.











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